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NOISE MEASUREMENT ON UNDERGROUND CRUSHING EQUIPMENT AT DENISON MINES LTD. IN ELLIOT LAKE

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by

M.U. Savich*

ABSTRACT

Thirty nine measurements of the Noise Exposure Index (NEI) were recorded for operators of rock breakers, cherry pickers, grizzly belt conveyors and crushers. The results show that noise levels exceed acceptable levels at rock breakers and cherry pickers. Conveyor belt operators are not exposed to noise levels in excess of the acceptable levels.

The acceptability of instruments used for this application remains questionable due to the frequent number of peak levels generated by the machinery. The current ANSI standards for both sound level meters and dosimeters provide no assurance of accuracy when impulsive noises are present.

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CONTENTS

	Page
ABSTRACT	i
INTRODUCTION	1
ROCK BREAKER, CHERRY PICKER AND GRIZZLY OPERATORS	1
CONVEYOR BELT OPERATOR	7
CRUSHER OPERATOR	7
CONCLUSIONS	11
REFERENCES	11
APPENDIX A	12

FIGURES

No.		
1.	Variation of unloading and breaking noise time for full shift. Major sources of noise: 1) Diesel powered equipment; 2) Unload; 3) Breakage; 4) Hydraulic system	5
2.	Method of calculating equivalent sound level and L_{OSHA}	6
3.	Crusher operator histogram over the whole working period. Measurements were performed with Type 2 Sound Level Meter and stop-watch	8
4.	Crusher operator histogram over the whole working period. Measurements were performed with Type 1 Sound Level Meter and portable graphic recorder	9
5.	Evaluation equivalent sound level during load time (Sept. 12, 1979)	10

TABLES

1.	Results of L_{OSHA} and time during work day	2
2.	Measurement of noise exposure index at breaker operator's ear.	6
3.	Equivalent continuous sound level and L_{OSHA} at crusher	10

INTRODUCTION

Thirty nine measurements of the Noise Exposure Index (NEI) were recorded for operators of rock breakers, cherry pickers, grizzly belt conveyors and crushers (Appendices 1 to 39). The results show that noise levels exceed acceptable levels at rock breakers and cherry pickers (see Table 1). The acceptability of instruments used for this application remains questionable due to the frequent number of peak levels generated by the machinery. The current ANSI standards for both sound level meters and dosimeters provide no assurance of accuracy when impulsive noises are present (1).

ROCK BREAKER, CHERRY PICKER AND GRIZZLY OPERATORS

The most difficult situation for the determination of noise exposure index, using short measurements, occurs around the breaker operator. Different noise types are mixed in terms of time length, and in terms of noise level. Major sources of noise on breaker stations are:

1) Diesel powered equipmnet; teletram and scooptram
2) Unload
3) Breakage
4) Hydraulic system.

Noise exposure tests at the breaker operator's ear were conducted (see Fig. 1):

1) Duration of noise was measured using a stop-watch, and surveyor's eyes and ear.
2) Type 2 Sound Level Meter, B & K and stop-watch.

At the start of the shift, the productivity of the loading machines falls sharply when the rock is thrown further than 10 m from the face. It is necessary to gather up small volumes of rock, and this explains the low filling

Table 1 - Results of L_{OSHA} and time during work day

No.	User Code	Job Code	Operation	Time (min)	L_{OSHA} (dBA)	Frequency Distribution (min/dBA) 60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105-109	110-114	115-119	Σ Time (min)	Note
1	7710	284	Rockbreaker Op.	479	93.5	24	13	27	37	10	45	217	72	18	17	0	0	480	CC203
2	7661	213	Rockbreaker Op.	480	91.1	56	14	17	20	110	64	98	69	31	1	0	0	480	24R08
3	[illegible]	296	Rockbreaker Op.	480	94.2	95	26	18	17	23	34	102	89	65	10	1	0	480	20PAM
4	4441	273	Rockbreaker Op.	480	87.3	182	39	39	29	21	17	94	52	6	1	0	0	480	CC210
5*	4466	RBR	Rockbreaker Op.	480	75.7	390	24	13	13	13	3	12	11	1	0	0	0	480	34960
6	4103	RBO	Rockbreaker Op.	480	97.5	32	20	12	6	27	107	82	58	87	43	6	0	480	1SH23
7	4550	RBO	Rockbreaker Op.	480	88.1	155	67	41	42	43	41	38	23	24	4	2	0	480	00000
8	4262	271	Rockbreaker Op.	480	95.6	104	16	8	12	35	58	64	54	125	4	0	0	480	30950
9	4733	213	Rockbreaker Op.	480	83.7	262	30	16	14	20	65	49	18	6	0	0	0	480	00371
10*	4731	213	Rockbreaker Op.	480	76.8	181	82	81	53	47	17	16	3	0	0	0	0	480	1SHAF
11	4460	214	Rockbreaker Op.	480	86.5	49	12	16	39	197	89	42	31	5	0	0	0	480	1SHAF
12	4103	RBO	Rockbreaker Op.	480	91.7	44	21	10	6	54	166	71	70	36	2	0	0	480	1SHAF
13	4635	213	Rockbreaker Op.	480	88.1	285	33	17	8	21	30	25	32	17	12	0	0	480	1SHAF
14	4485	RBC	Rockbreaker Trn.	480	91.6	36	21	20	9	70	148	73	63	37	3	0	0	480	1SHAF
15	4386	281	Cherry Pkr. Op.	480	100.1	93	23	24	13	29	80	73	65	33	12	16	19	480	CC202
16	4060	270	Cherry Pkr. Op.	480	90.7	73	12	19	13	54	106	84	112	7	0	0	0	480	CC203
17	4116	281	Cherry Pkr. Op.	480	87.8	100	36	33	40	102	47	61	49	11	1	0	0	480	CC210
18	4060	270	Cherry Pkr. Op.	480	93.5	20	17	23	14	104	77	95	93	29	3	3	2	480	CC210
19	4116	281	Cherry Pkr. Op.	480	94.7	58	10	16	20	98	64	63	56	78	16	1	0	480	CC210
			Mean	479.94	93.50 ▲	98.12	24.12	20.94	19.94	59.88	72.82	78.29	59.18	36.18	7.59	1.71	1.24	480	
			Std. Dev.	0.24	Log aver.	79.57	14.12	9.38	12.54	48.77	40.53	42.02	24.98	33.79	10.78	4.01	4.6	480	
20	4523	241	Grizzly Operator	480	90	114	24	46	31	76	51	58	64	10	3	2	1	480	CC210
21	4523	241	Grizzly Operator	480	88.3	171	39	28	21	24	31	86	68	12	0	0	0	480	CC210
			Mean	480	89.23 ▲	142.5	31.5	37	26	50	41	72	66	11	1.5	1	0.5	480	
			Std. Dev.	-	Log aver.	40.31	10.61	12.73	7.07	36.77	14.14	19.80	2.83	1.41	2.12	1.41	0.71	480	

* Not estimated

Cont. overleaf

Table 1 - cont.

No.	User Code	Job Code	Operation	Time (min)	L_{OSHA} (dBA)	Frequency Distribution (min/dBA) 60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105-109	110-114	115-119	Σ Time (min)	Note
22	7919	CBO	Conveyor Belt Op.	480	87.7	200	67	27	25	21	23	41	55	19	2	0	0	480	1SH23
23	4078	CBO	Conveyor Belt Op.	480	67.5	379	37	35	15	7	5	2	0	0	0	0	0	480	1SH23
24	4405	230	Conveyor Belt Op.	480	86.3	243	26	22	11	28	26	52	72	0	0	0	0	480	00344
25	4405	230	Conveyor Belt Op.	480	76.7	388	18	9	12	9	14	17	13	0	0	0	0	480	00344
26	4609	230	Conveyor Belt Op.	480	84.9	125	46	41	37	133	31	23	37	7	0	0	0	480	00347
27	4527	230	Conveyor Belt Op.	480	84.2	213	25	26	20	102	24	22	46	2	0	0	0	480	00347
28	4830	230	Conveyor Belt Op.	480	88.6	246	54	23	14	6	12	19	70	35	1	0	0	480	00348
29	4531	230	Conveyor Belt Op.	480	88.2	138	56	42	27	27	26	84	73	5	2	0	0	480	00348
30	4267	230	Conveyor Belt Op.	480	86.3	145	43	48	13	11	84	98	38	0	0	0	0	480	00350
31	4621	230	Conveyor Belt Op.	480	87.9	84	28	36	45	41	58	147	41	0	0	0	0	480	00351
32	4710	241	Conveyor Belt Op.	480	97.4	111	23	13	25	48	120	44	34	6	7	47	2	480	1208E
33	7483	COH	Conveyor Belt Op.	480	80.1	304	20	11	12	21	71	39	2	0	0	0	0	480	00000
34	4222	CBO	Conveyor Belt Op.	480	84.8	190	47	41	47	76	17	35	22	0	1	4	0	480	00000
35	4077	CBO	Conveyor Belt Op.	480	77.4	299	54	32	25	19	25	18	6	2	0	0	0	480	00000
36	7919	CBO	Conveyor Belt Op.	480	83.4	170	57	43	43	50	53	39	23	2	0	0	0	480	00000
37	0816	132	Conveyor Belt Op.	480	77.6	255	52	54	39	28	29	16	7	0	0	0	0	480	00000
			Mean	480	88.09 ▲	218.13	40.81	31.44	25.63	39.19	38.63	43.50	33.69	4.88	0.81	3.19	0.13	480	
			Std. Dev.	-	Log aver.	91.21	15.58	13.46	12.83	36.16	30.92	37.26	24.92	9.41	1.8	11.73	0.5	480.13	
38*	4375	132	Crusher Operator	126	91.8	425	11	3	3	6	1	4	4	20	3	0	0	480	12950
39	0660	067	Crusher Operator	480	97.6	36	45	33	15	22	45	41	69	139	35	0	0	480	UCRUS
			Mean	480	97.6	36	45	33	15	22	45	41	69	139	35	-	-	480	
			Std. Dev.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	480	

* Not estimated

factor of the teletram and scooptram. Small volumes of rock pass through the grill, while being unloaded, thus making breaking time very short. The noise duration, during one unloading and breaking cycle is dependent on quantity and size of ore.

Date from unloading and breaking times were computerized, and the slope lines had approximately the same angle: 9.8° ≈ 11.7° (graphical determination). This shows that both tests are good because their respective results were similar.

Average unloading and breaking time was higher by 20 seconds when observations were taken with the eyes, ear, and stop-watch. Arithmetic means are:

Ear + Stop-watch		Sound Level Meter + Stop-watch
(Mean - 189.5s, St. dev. - 67.8s)	>	(Mean - 169.6s, St. dev. - 67.8s)

In both cases it is essential that noise is not distributed equally during a full shift. The surveyor determining the noise exposure index, using short measurements, could make an error in time measurements of 72 to 228 seconds (see Fig. 1), a difference of 2.6 minutes. If there are 30 cycles/shift, the answer will be off by 78 minutes, which is catastrophic in evaluating the noise exposure index. This is why a detailed analysis of this situation must be carried out.

The similarity of current measurements (Table 1), to those previously recorded (Table 2) is shown in Fig. 2. Differences in Leq (load) reading results still exist.

The method of measuring noise exposure index using these instruments remains open to question. It would be possible to perform these measurements using expensive and complex electronic instruments and high speed photographic techniques. These measurements would have theoretical and practical value for the study of impulse noise in mines.

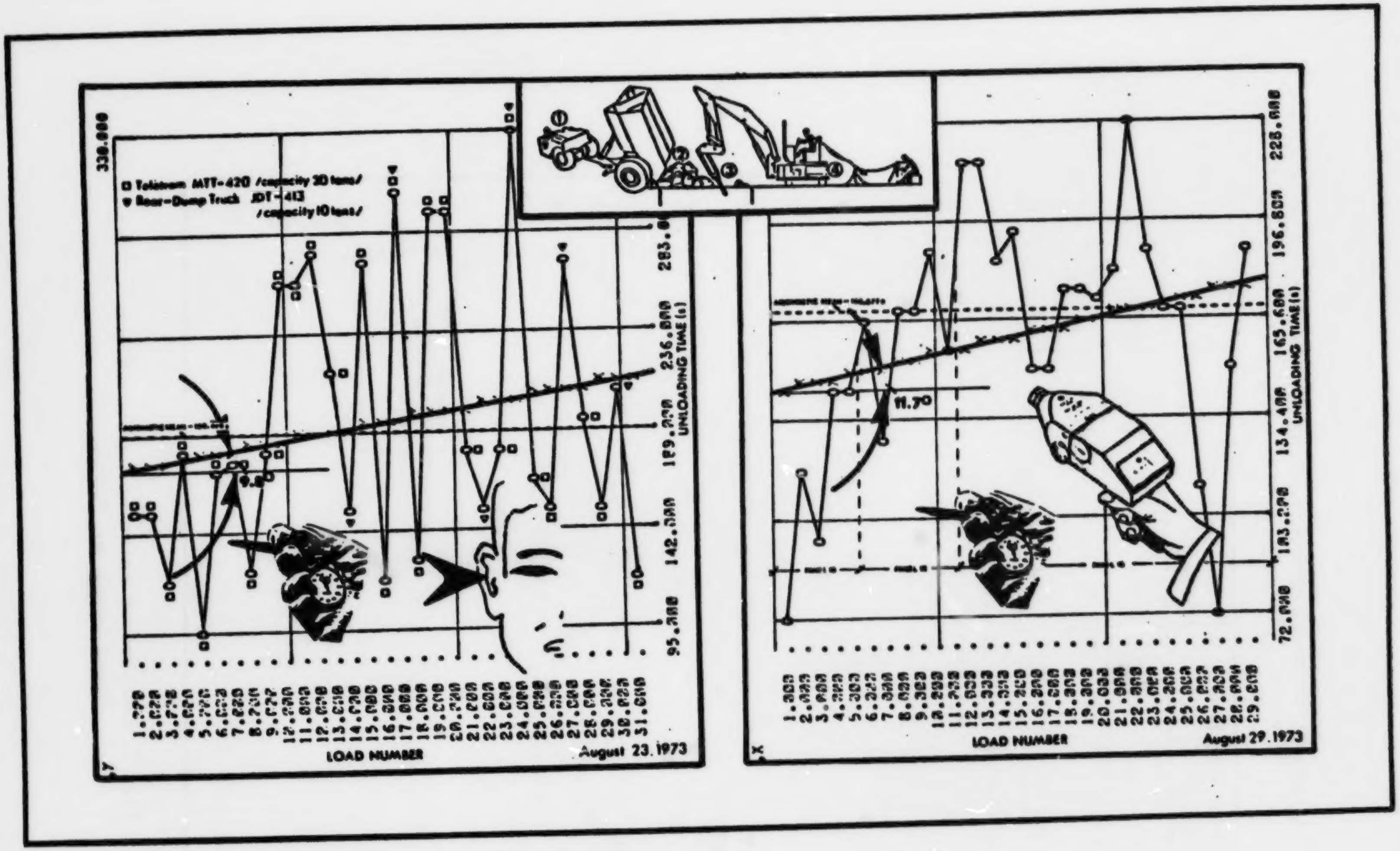


Fig. 1 - Variation of unloading and breaking noise time for full shift. Major sources of noise: 1) Diesel powered equipment; 2) Unload; 3) Breakage; 4) Hydraulic system.

Table 2 - Measurement of noise exposure index at breaker operator's ear

Date	Sound Level Meter Type 2205, B & K			166 Environmental Noise Classifier B&K			Sound Dosimeter Bendix		
	NEI*	Time (h)	Leq (load)	NEI	Time (h)	Leq (load)	NEI	Time+ (h)	Leq (load)
23/08/73	(1.03)	1.63	(101.8)	1.17	1.41	103.4	1.07	1.41	103.7
29/08/73	0.86	1.37	101.8	1.17	1.32	104.2	1.15	1.32	104.8

* NEI - Noise Exposure Index
\+ Time from 166 Noise Classifier
( ) Estimated from data 29/08/1973.

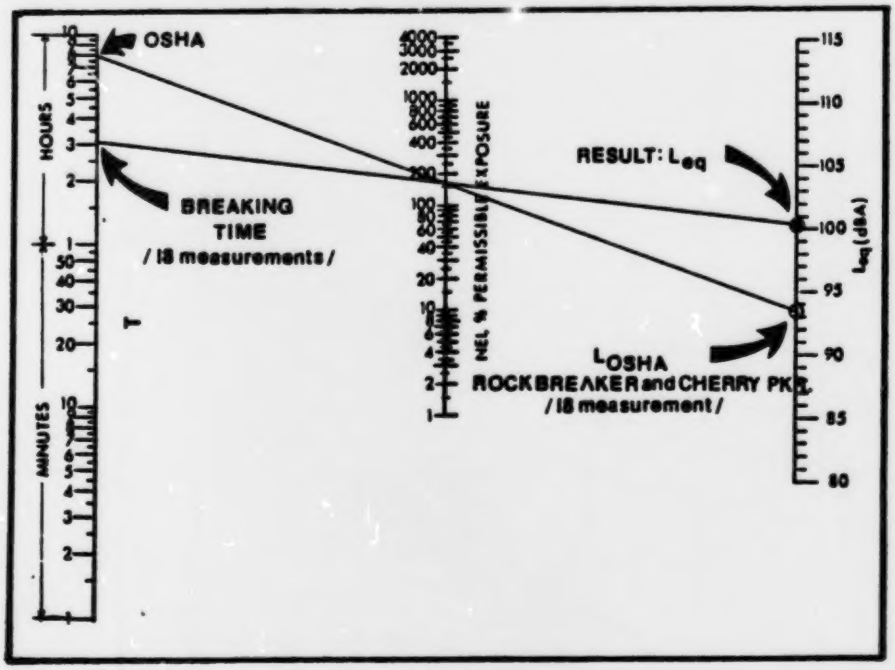


Fig. 2 - Method of calculating equivalent sound level and LOSHA.

CONVEYOR BELT OPERATOR

It was concluded that the noise level is within permissible levels for the conveyor belt operator based on 16 measurements. Higher noise levels were recorded in the area of the crusher rock breakers or at the unload end of the belt. The operator spends very little time in these areas over a shift.

CRUSHER OPERATOR

Three measurements were performed on the crusher operator: 1973 using Type 2 sound level meter and stop-watch (see Fig. 3); 1977 using Type 1 sound level meter (see Fig. 4) and portable graphic recorder; and 1979 with a profiling dosimeter. In the first case the accuracy of the measurements, and evaluation of results are dependent on the surveyor, in the second the evaluation is only of the surveyor. In the third instance the measurement and evaluation are completed electronically and completely independent of the surveyor. It may be seen from Table 3 that the results of L_{eq} are very similar.

Evaluation of L_{OSHA} was performed with the graphical method (see Fig. 5) (2).

The results show that is unnecessary to perform supplementary measurements as accurate results may be realized by measuring the duration of the load time only, on the basis of production, electrical power consumption or similar methods. As with rock crushers it would be necessary to perform the measurements with complex acoustical instruments.

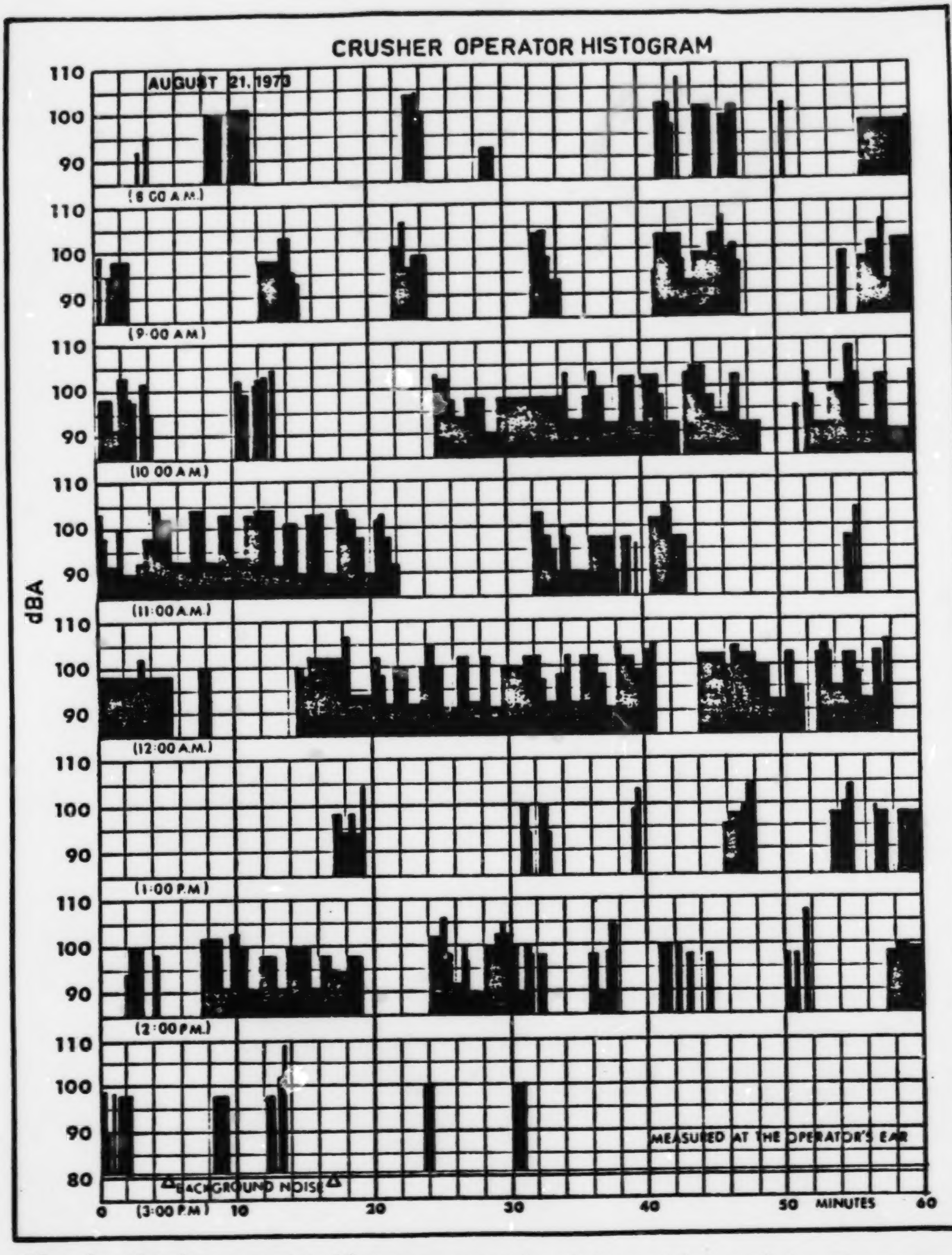
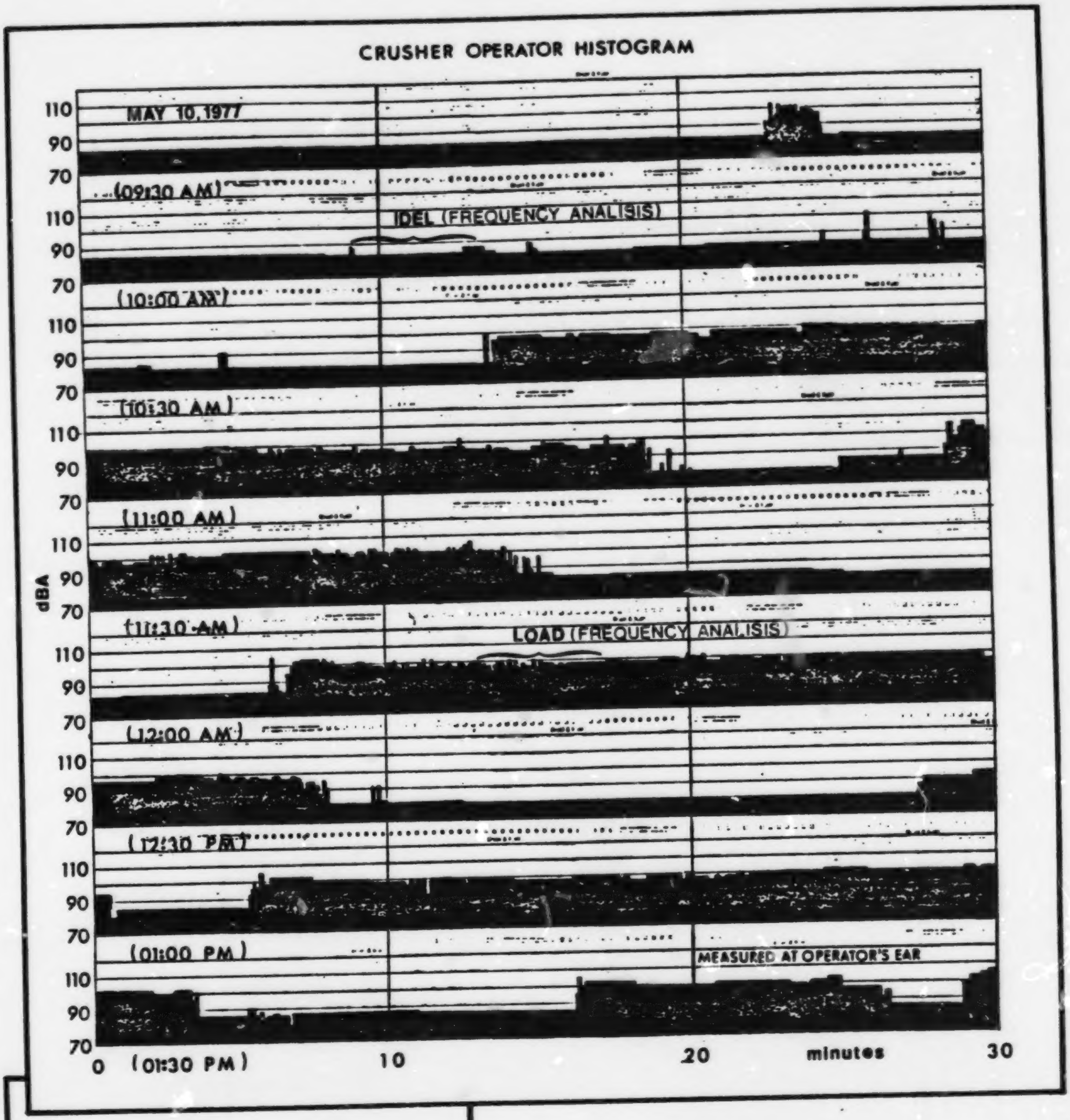


Fig. 3 - Crusher operator histogram over the whole working period. Measurements were performed with Type 2 Sound Level Meter and stop-watch.



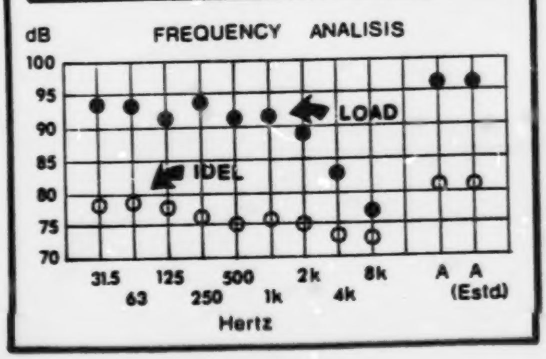


Fig. 4 - Crusher operator histogram over the whole working period. Measurements were performed with Type 1 Sound Level Meter and portable graphic recorder.

Table 3 - Equivalent continuous sound level and L_{OSHA} at crusher

Date	Measurement at Operator's Ear		
	L_{eq}*	L_{OSHA}	Instrument
21/08/73	100.3	93.5	Type 2 Sound Level Meter (B&K) and stop-watch
10/05/77	100.2	91.2	Type 1 Sound Level Meter and Portable Graphic Recorder (B&K)
12/09/79	101.5	97.6	Profiling dosimeter (301-Metrologer, Metrosonics)

Note: * during load time

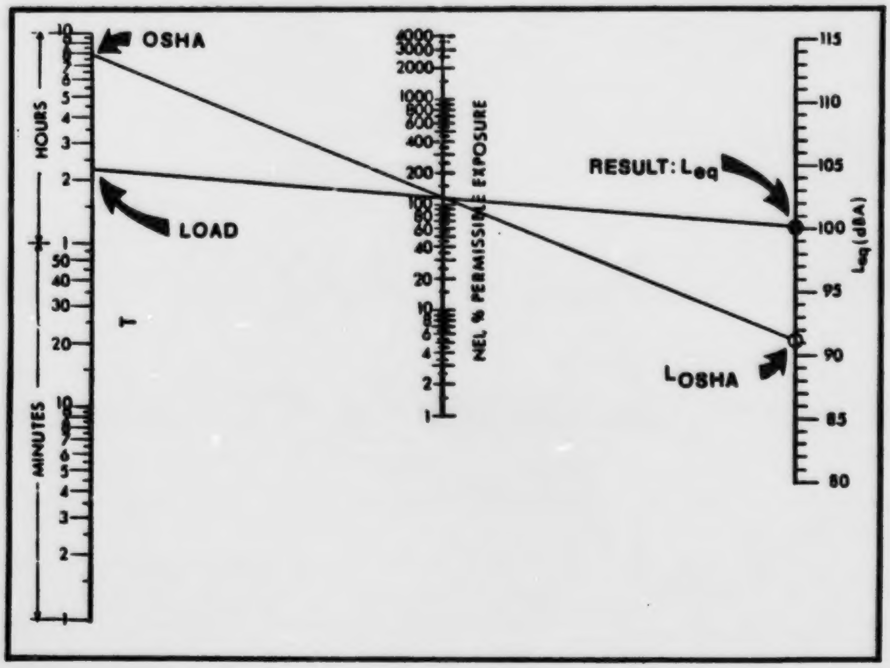


Fig. 5 - Evaluation equivalent sound level during load time (Sept. 12, 1979).

CONCLUSIONS

The measurement of NEI of operators of rock breakers and cherry pickers, grizzlies, and crushers has great theoretical value in the future determination of exposures. The peak noise level and the number of occurrences during a shift remain undetermined.

Conveyor belt operators are not exposed to noise levels in excess of the acceptable levels.

REFERENCES

1. Kundert, W.R., "Dosimeters, impulsive noise and the OSHA hearing conservation amendment"; Noise Control Engineering J, vol 19, no. 3, 1982.

2. Savich, M., "Simple graphical method of evaluation of the noise exposure index and the equivalent continuous sound level"; Can Min and Met Bull, Sept. 1978.

APPENDIX A

MEASUREMENT OF NOISE EXPOSURE INDEX ON UNDERGROUND CRUSHING EQUIPMENT WITH FULL INFORMATION: L_{OSHA} (CURRENT AND CUMULATIVE); PERCENT DOSE (CURRENT AND CUMULATIVE); ARITHMETIC MEAN; STANDARD DEVIATION; VARIANCE; AMPLITUDE DISTRIBUTION (GRAPHICAL AND NUMERICAL); AND TIME HISTORY (GRAPHICAL).

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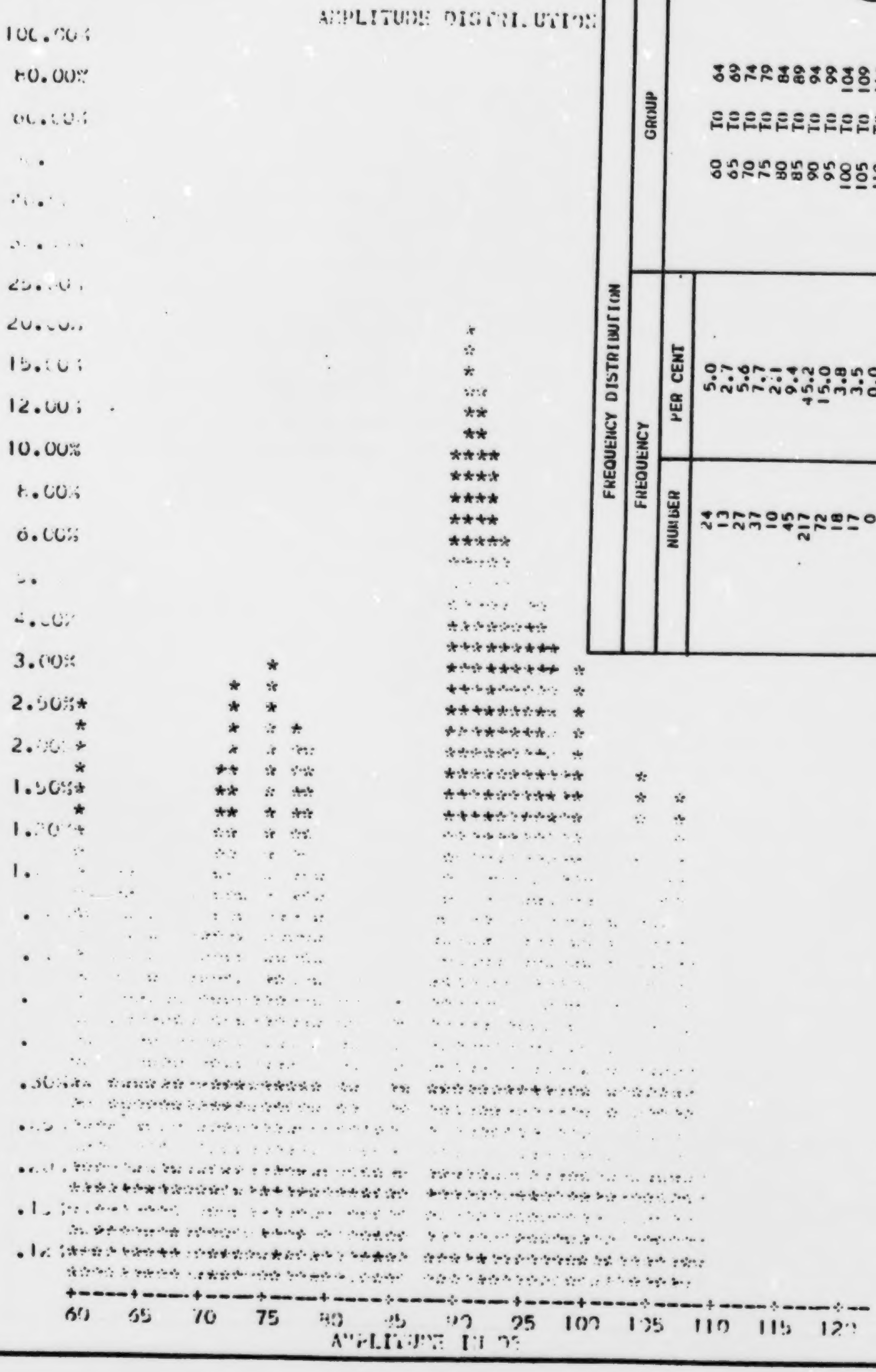

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10	2.1	80 TO 84
45	9.4	85 TO 89
217	45.2	90 TO 94
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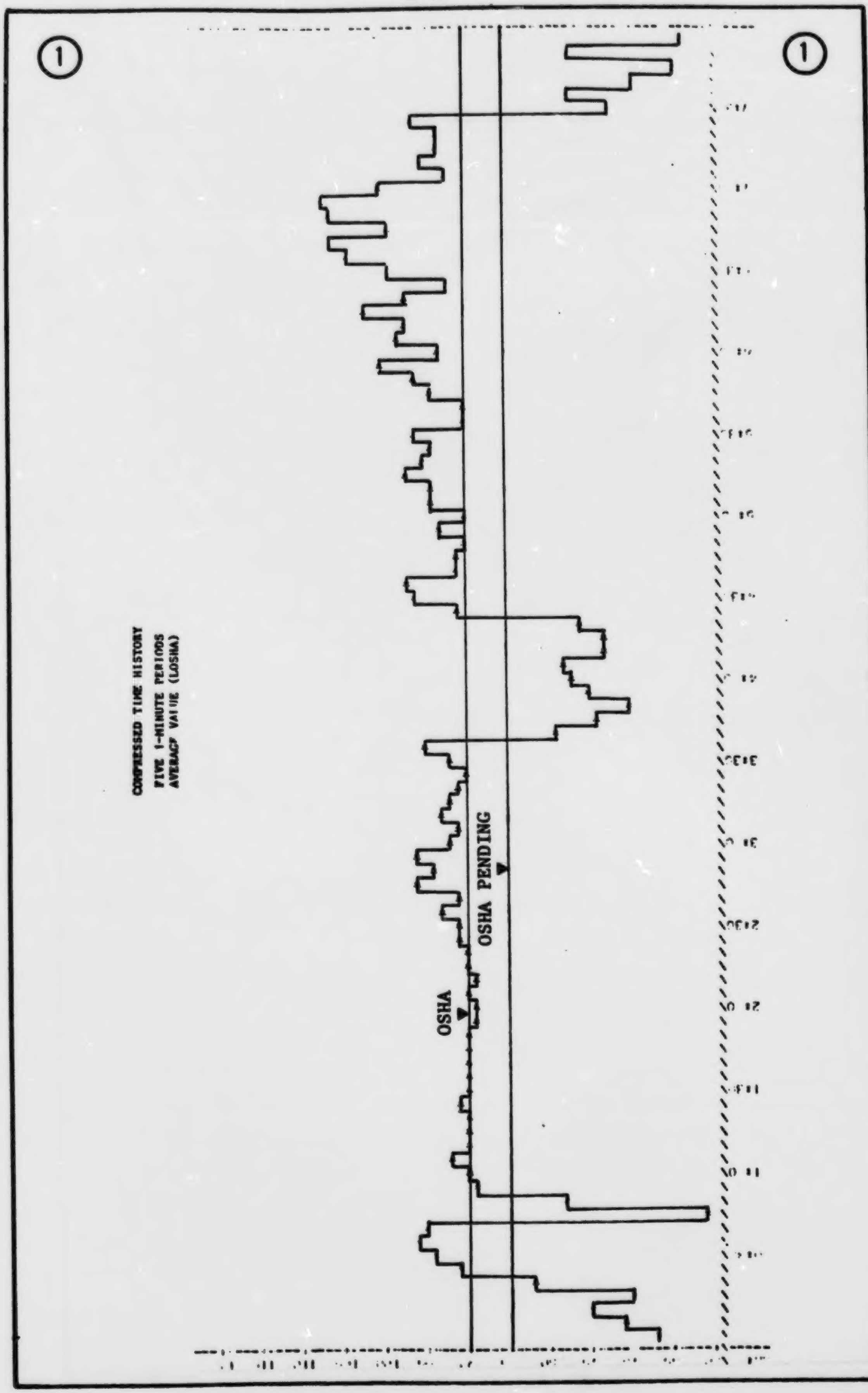
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COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(2) (2)

[illegible]

63	70	[illegible]	60	60	60	60	60	65	52	70	66	[illegible]	67	[illegible]	71
72	[illegible]	77	73	[illegible]	68	77	70	77	[illegible]	[illegible]	82	[illegible]	[illegible]	90	90
91	[illegible]	[illegible]	90	90	91	91	93	[illegible]	[illegible]	[illegible]	103	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71	[illegible]	[illegible]	[illegible]	65	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
93	[illegible]	[illegible]	91	93	93	90	[illegible]	[illegible]	93	[illegible]	67	[illegible]	67	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
97	[illegible]	[illegible]	94	92	92	[illegible]	[illegible]	103	[illegible]	97	[illegible]	90	[illegible]	92	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	94	102	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
97	[illegible]	[illegible]	[illegible]	[illegible]	93	[illegible]	[illegible]	[illegible]	93	[illegible]	[illegible]	97	[illegible]	96	[illegible]
[illegible]	[illegible]	91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	95	[illegible]	[illegible]	[illegible]	97	102	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	97	94
97	96	103	93	96	94	93	96	97	98	96	97	100	93	101	103
101	96	100	99	97	101	94	97	94	88	87	82	[illegible]	83	83	[illegible]
88	87	86	87	83	83	65	86	82	78	60	60	74	[illegible]	50	62
61	61	60	71	93	90	[illegible]	[illegible]	84	91	72	77	[illegible]	87	64	[illegible]
91	100	101	93	97	97	92	64	63	76	63	79	[illegible]	63	63	77
62	63	93	[illegible]	[illegible]	91	65	70	65	73	76	79	75	73	79	77
79	80	83	84	82	83	81	81	81	81	61	62	60	64	54	64
79	66	94	93	94	94	94	92	92	92	79	70	73	67	63	70

%EOF

ENTER LOG DATE (DD/MM/YR) : 10/07/79
ENTER SITE CODE (5 CHARS) : [illegible]
ENTER [illegible] CODE (4 CHARS) : [illegible]
ENTER JOB CODE (3 CHARS) : 213

DATA LOGGED :10 JULY 1979
[illegible] : [illegible]-301/26
[illegible] : [illegible]

DATA ANALYZED : 11 SEPT 1979
SITE CODE : [illegible]
JOB CODE : 213
[illegible]

[illegible]

[illegible]

PERIOD = 1 [illegible]

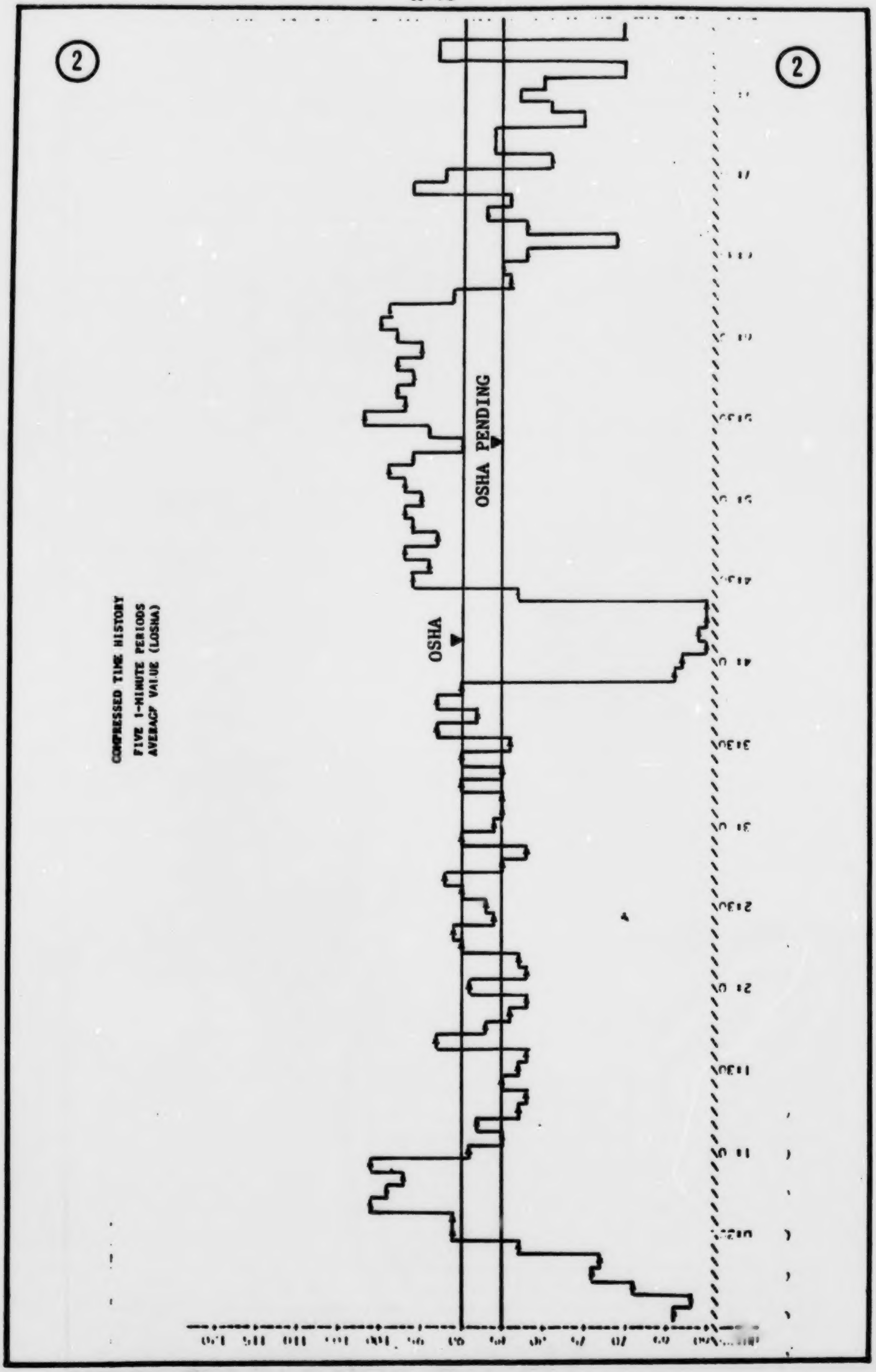
1	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	7.312	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	17.2[illegible]	11[illegible].21
	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

(2)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
56	11.7	60 TO 64
14	2.9	65 TO 69
17	3.5	70 TO 74
20	4.2	75 TO 79
110	22.9	80 TO 84
64	13.3	85 TO 89
98	20.4	90 TO 94
69	14.4	95 TO 99
31	6.5	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



2
2
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(3)

(3)

```
[illegible]
  1  25  80  1225   60   64   4   1
 1.6/3      115280   480
 60  61  63  60  64  60  6[illegible]  61  61  60  61  64  65  64  64  69
 65  76  71  67  64  74  67  71  63  62  67  69  72  74  78  80
 77  86  90  92  91  91  91  93  91  91  92  92  94 100 101 101
101  97 101 100  93  99  95  97  93  83  90  90 [illegible]  96 101 100
101  92  92  92  93 [illegible]  98  94  95  95 102  92 [illegible] 132  96  69
102 101  93  99  94  93  92  90 [illegible] [illegible]  91  90 [illegible] [illegible]  7[illegible] [illegible]
[illegible] 1[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 1[illegible] [illegible] 102 [illegible] [illegible] 61 [illegible]
6[illegible] [illegible] [illegible]  76  63  79  76  90 [illegible] [illegible] [illegible]  93 [illegible] [illegible] [illegible] [illegible]
9[illegible] [illegible] [illegible]   9  97 [illegible] [illegible] [illegible]  61  70  74  66  71  74 [illegible]  90
 63  72 [illegible]  80  75  68  69  82 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]   1 [illegible] [illegible] [illegible] [illegible] [illegible]  60  60  63 [illegible]  61  60  6[illegible]
 60  60 [illegible]  61  63  62  60  60  61 [illegible]  61  60 [illegible]  61  60  6[illegible]
 60  61  6[illegible]  60  6[illegible]  60  61  60 1[illegible] [illegible] 1[illegible] 10[illegible] 1[illegible] 1[illegible] 1[illegible] 1[illegible]
 60 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]  64 [illegible]  62  73  65  76  75  73  71
102 103  9[illegible] 102 103  99  90  92 [illegible] [illegible]  97  96  92  60  69  95
 60  72  87  98  95 101  94  99  96  95  91  90 [illegible]  95 [illegible] [illegible]
100  90 [illegible]  76  99  96 102  97  97  73  91  96 1[illegible]  98 110  9[illegible]
 93  90  94  93  90  94  91 101  90  96 104 106  [illegible]  83 105 105
 90  93 102  97  99  94 104  76  57  93  60  66 [illegible]  61  81  79
105  98 101 100  92  96  98 102 103  99 103  95  77 [illegible]  95  93
 88  91  92  91  95  91  93  92  92  94  91  97  91  93 100 102
101 104  96 100 101  98  98  96  99  96  99  93  91  86  96  98
 87  86  93  96  98  92  86  92 103 103  99  91 102  99 104 105
 82  91  90  87  87  90  90  99 105 106 101  95 104  88  93  99
105 101 101 101 103 107  99  91  98 101  96  87  98  93  95  98
 91  94  86  97  87  97  96 101 101  94  87  95  98 104 101 104
 97  89 104  93  92  88  99  95  94  96  96  96  95  62  60  60
 96  95  99  98 104 104 101  80  66  67  63  60  60  66  70  67
 60  70  69  63  60  70  74  63  60  75  69  62  60  93  67  66
 61  63  64  63  79  84  96  95  95  96  95  95  94
%EOF
```

ENTER LOG DATE (MD/MM/YR) : 10/07/79

ENTER SITE CODE (5 CHARS) : 20PAN

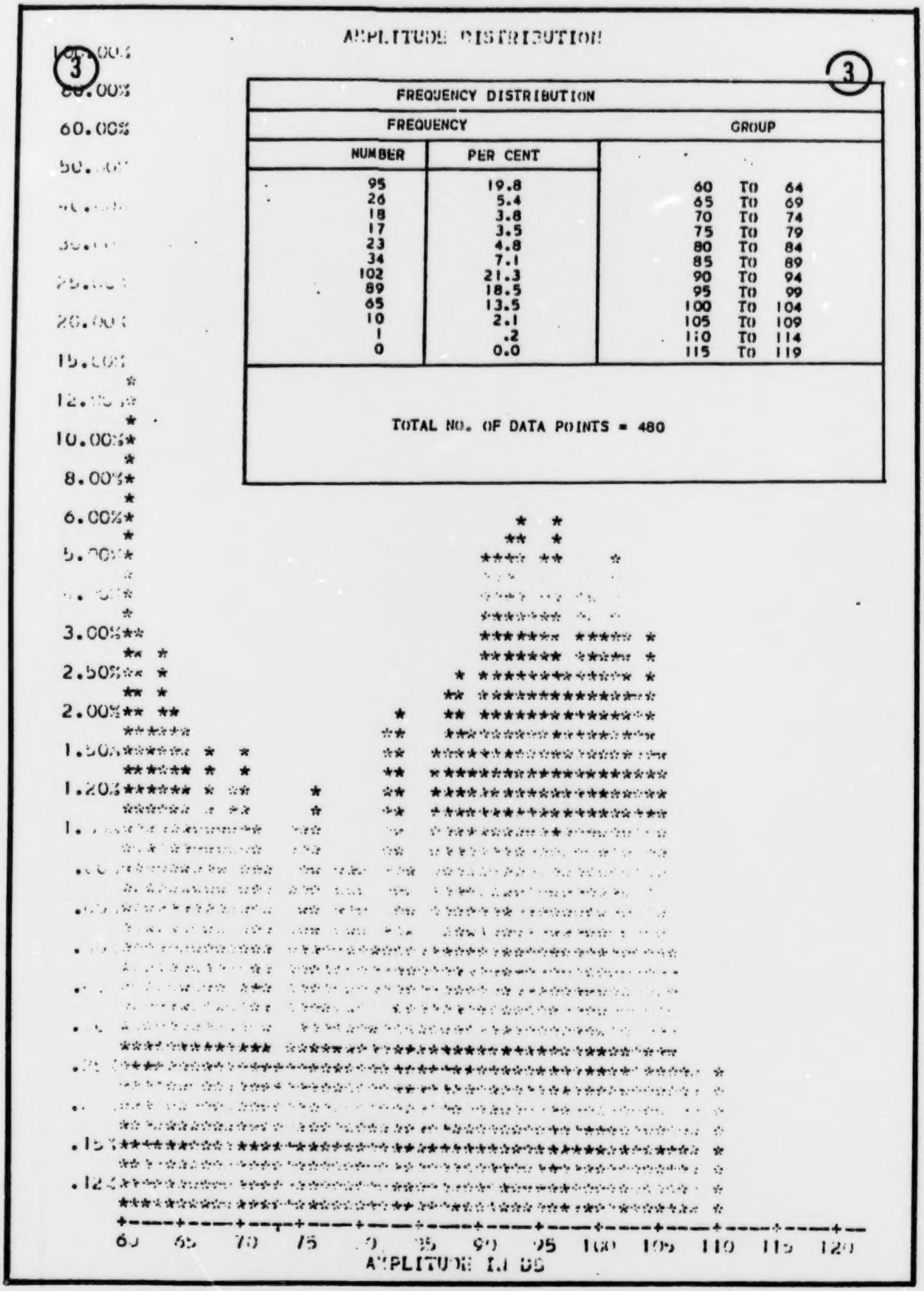
ENTER USER CODE (4 CHARS) : 4800
ENTER JOB CODE (3 CHARS) : 296

```
        DATA LOGGED :10 JULY 1979              DATA ANALYZED : 11 SEPT 1979
           LOGGER : [illegible]-301/26           SITE CODE : 20PA[illegible]
    SERIAL NUMBER : 1225                          JOB CODE : 29[illegible]
        [illegible] : [illegible]                [illegible] : [illegible]
  DYNAMIC [illegible] : [illegible]              [illegible] : [illegible]
    SAMPLE [illegible] : 4/SEC                 TOTAL SAMPLES = 115[illegible]
    TEST LOCATION = [illegible]               [illegible] = [illegible]
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE [illegible]
[illegible] = 5 [illegible]
[illegible] LEVEL = [illegible]
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

                  [illegible]                       [illegible]
[illegible]    [illegible]   CUMULATIVE      [illegible]    [illegible]
[illegible]                                   12.547         12.55
   1          90.0        90.0               19.153         31.70
   2          73.1        91.7               [illegible]    [illegible]
   [illegible] [illegible] [illegible]       15.7[illegible] 56.2[illegible]
   4          [illegible]  9[illegible]      31.977         [illegible].26
   5          90.[illegible] 92.5            31.605         119.[illegible]
   6          90.7        93.4               40.7[illegible] 16[illegible]
   7          [illegible]  9[illegible].4    17.479         17[illegible]
   [illegible] [illegible] [illegible].2
                                          MAX. COMP. = 110 [illegible]
 MIN. COMP. = 60 [illegible]
 [illegible] = 34 [illegible]
 [illegible] = 15 [illegible]
 [illegible]
```

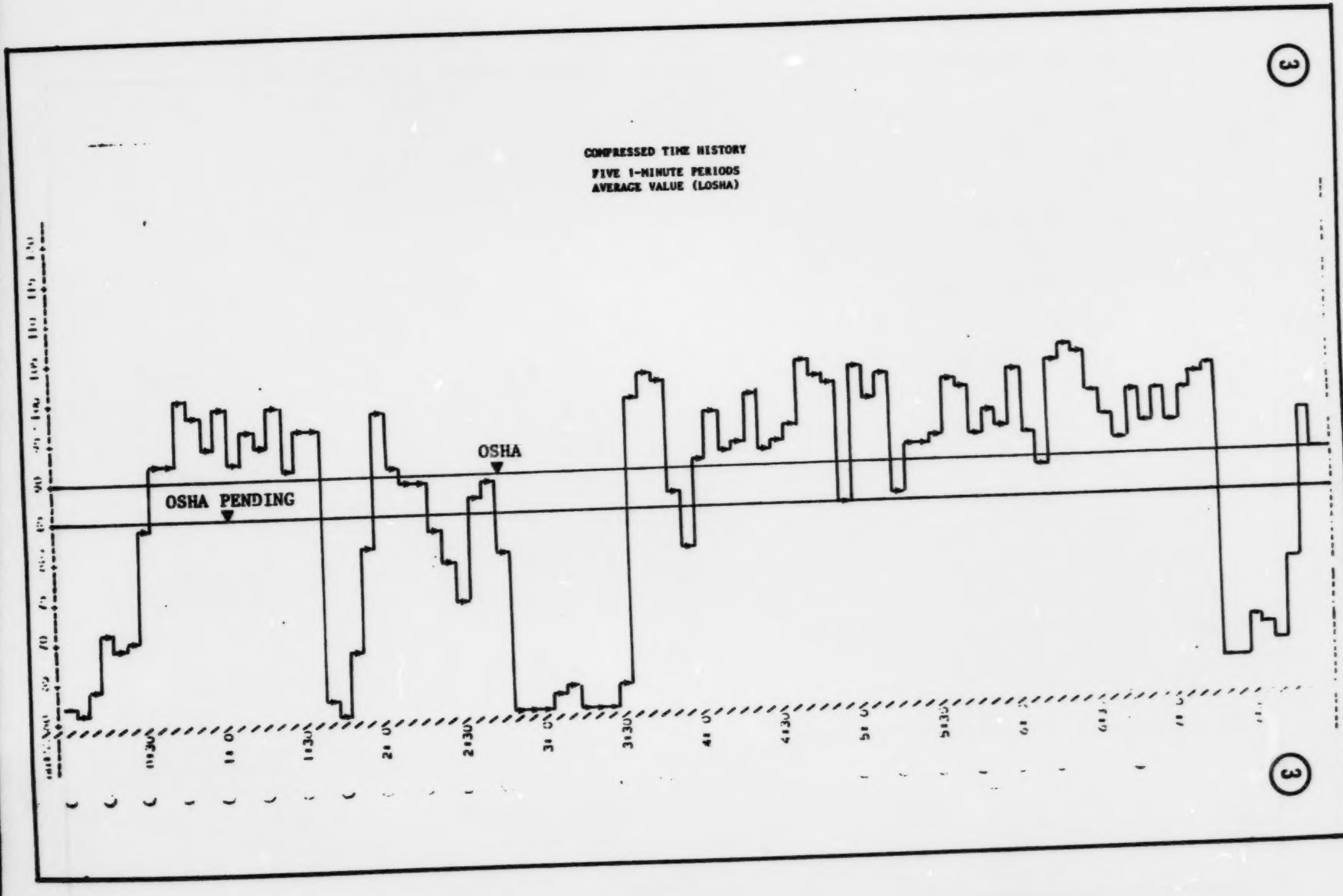


3

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
95	19.8	60 TO 64
26	5.4	65 TO 69
18	3.8	70 TO 74
17	3.5	75 TO 79
23	4.8	80 TO 84
34	7.1	85 TO 89
102	21.3	90 TO 94
89	18.5	95 TO 99
65	13.5	100 TO 104
10	2.1	105 TO 109
1	.2	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
3
3

(4)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
1 26 80 1218 60 64 4 1
89 115200 480

71	72	60	65	65	60	63	62	66	71	60	60	60	60	69	75
64	62	60	67	61	69	73	73	70	62	92	92	92	91	91	90
95	97	95	97	92	96	96	96	94	97	92	61	58	68	69	62
62	60	60	60	61	60	63	62	66	65	65	67	69	72	64	77
71	61	70	74	69	72	60	60	64	69	64	67	71	69	76	73
74	73	73	78	73	93	91	71	71	73	72	76	60	102	105	60
65	71	71	65	73	60	61	63	65	66	65	74	[illegible]	99	100	95
92	94	90	78	64	63	94	94	97	101	95	69	60	64	60	60
61	32	93	91	96	97	93	98	94	94	60	60	70	94	90	93
95	65	60	71	63	64	61	92	91	69	64	62	72	93	[illegible]	72
77	93	85	68	74	76	81	96	93	87	60	60	60	60	60	60
60	74	92	90	91	96	73	60	60	60	60	61	60	60	60	60
74	95	76	79	93	91	62	60	60	63	60	60	60	60	60	60
61	95	94	94	73	64	60	60	60	60	60	60	60	90	94	66
60	60	60	60	87	94	71	60	60	60	60	60	60	60	60	60
66	94	72	60	60	60	60	60	60	60	60	62	95	82	60	60
60	60	62	65	70	61	60	60	64	61	60	92	93	92	90	92
92	92	93	73	77	95	83	86	95	100	96	97	98	86	60	60
60	60	60	82	60	60	60	60	60	60	60	60	66	66	60	60
60	60	64	61	60	68	60	60	60	60	60	60	63	60	60	62
92	96	80	73	63	86	92	78	82	64	92	92	75	60	63	60
68	93	86	60	63	90	90	60	60	60	60	60	75	93	78	77
91	91	88	77	65	60	67	77	96	94	84	63	64	95	92	89
90	91	90	90	90	89	98	100	90	73	93	89	88	93	91	95
95	98	92	83	65	60	60	62	60	91	96	80	78	94	79	60
60	77	99	98	98	94	94	75	60	60	88	93	91	97	96	104
99	68	60	94	93	92	91	92	91	90	90	91	90	61	60	82
92	94	99	60	60	60	60	61	61	61	62	60	61	61	61	70
77	60	70	91	91	78	75	90	91	96	90	97	99	99	98	99
97	79	90	72	77	84	71	97	79	94	91	60	80	91	84	69

%EOF

(4)

ENTER LOG DATE (DD/MM/YR) : 13/07/79

ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4441
ENTER JOB CODE (3 CHARS) : 273

DATA LOGGED :13 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1218
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

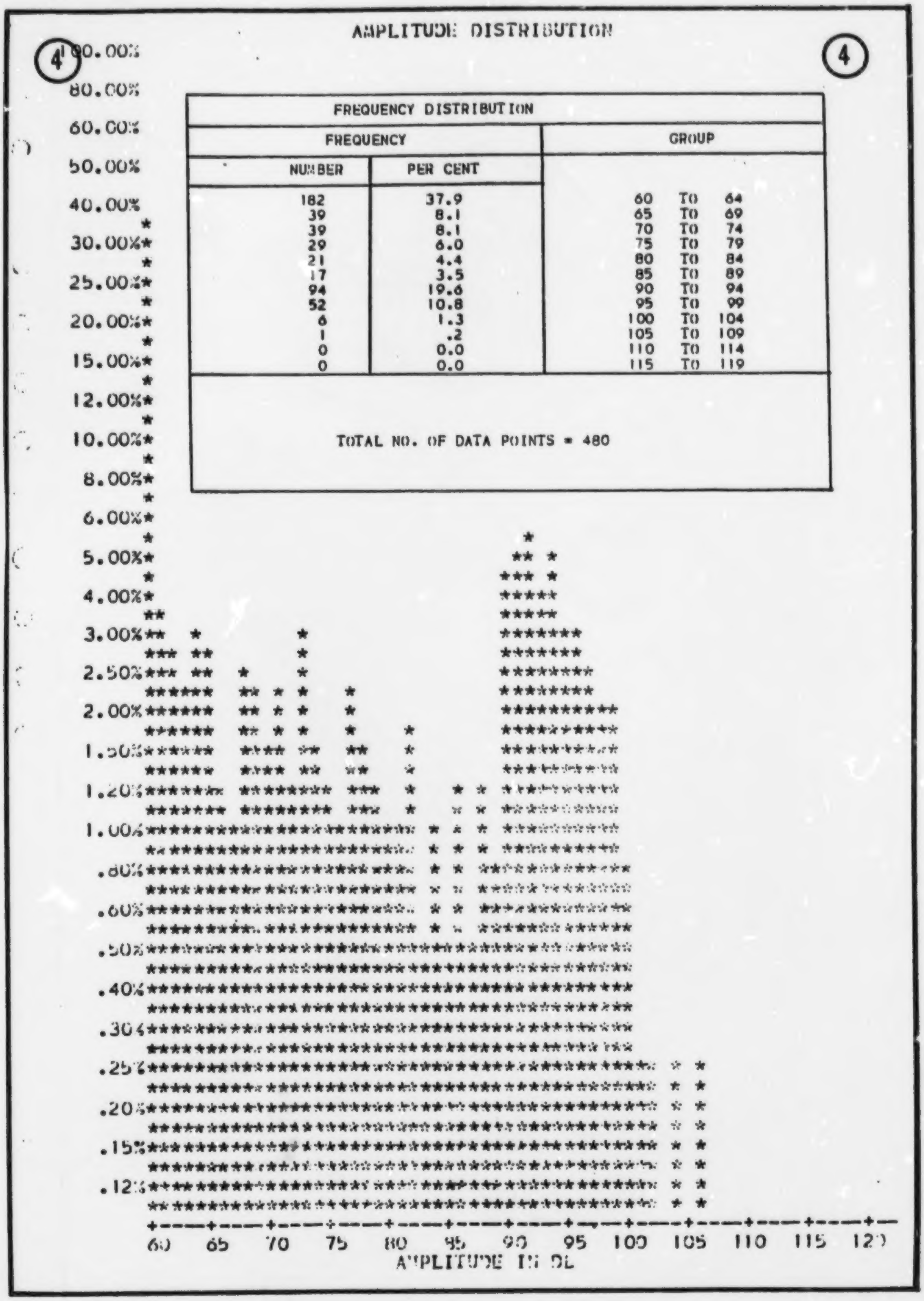
DATA ANALYZED : 12 SEPT 1979
SITE CODE : CC210
JOB CODE : 273
USER CODE : 4441
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:22

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	86.3	86.3	7.463	7.46
2	87.5	86.9	8.787	16.25
3	88.4	87.4	9.952	26.20
4	81.8	86.4	4.033	30.24
5	86.1	86.3	7.291	37.53
6	81.8	85.7	4.037	41.56
7	91.7	87.0	15.905	57.47
8	89.3	87.3	11.345	68.81

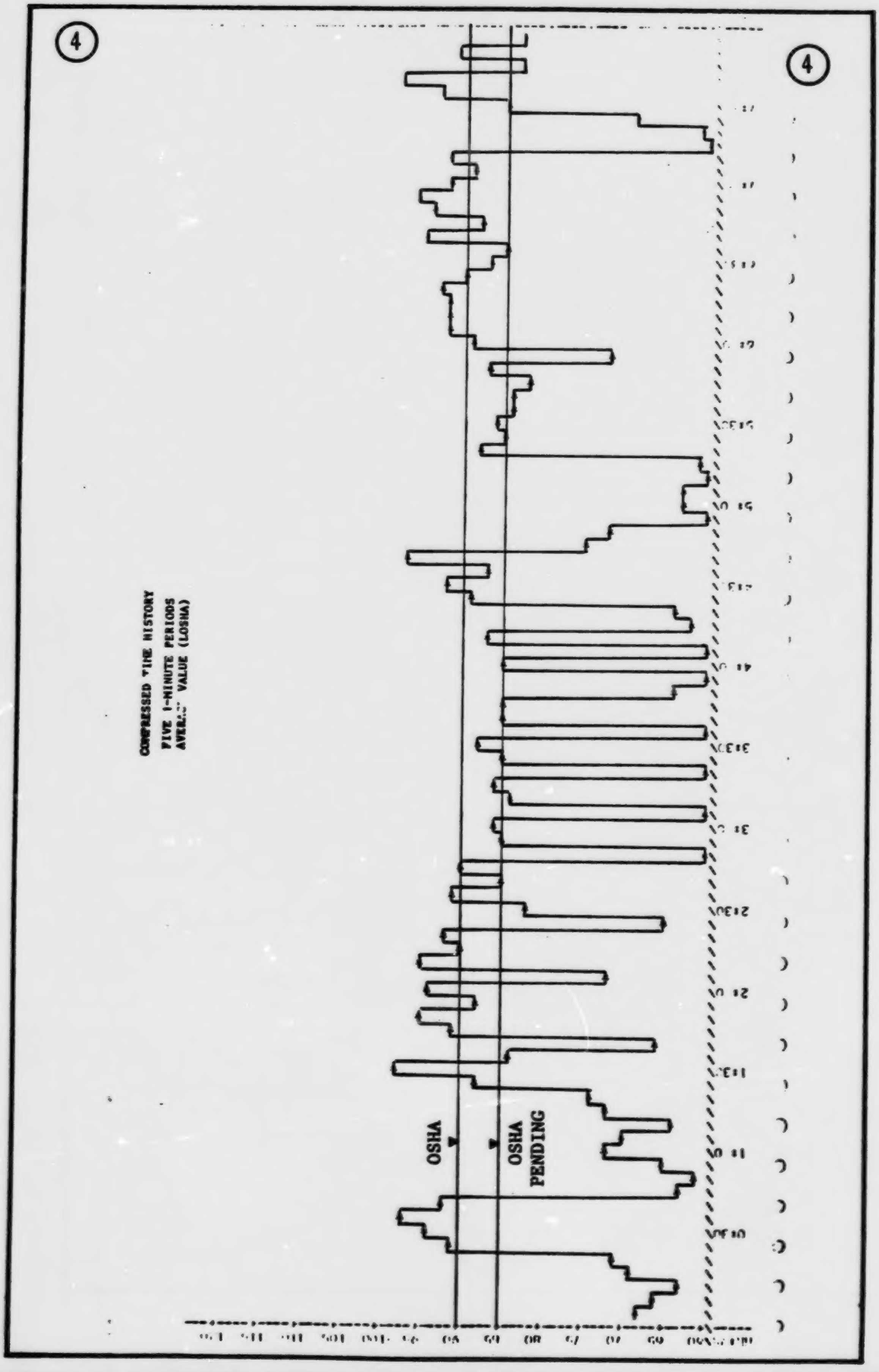
MIN. COMP. = 60 DB
MAX. COMP. = 106 DB
ARITHMETIC MEAN = 75 DB
STD. DEVIATION = 15 DB
VARIANCE = 225 DB



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
182	37.9	60 TO 64
39	8.1	65 TO 69
39	8.1	70 TO 74
29	6.0	75 TO 79
21	4.4	80 TO 84
17	3.5	85 TO 89
94	19.6	90 TO 94
52	10.8	95 TO 99
6	1.3	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



4
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
VALUE (LOSHA)
OSHA
OSHA PENDING

(5) (5)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1224 60 64 4 1
96 115200 480

60	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	61	64	60	63	60	60	60	60	60	64	68	66	66	81
91	73	80	75	81	96	99	87	88	83	86	82	97	99	97	94
94	91	93	98	100	83	67	74	[illegible]	72	68	69	76	66	60	70
65	60	60	60	67	63	60	60	62	62	60	62	60	60	60	60
63	62	60	61	61	60	60	66	60	62	60	60	60	60	60	61
62	60	71	76	77	62	60	60	60	60	60	60	70	98	96	71
60	76	81	81	77	77	73	65	75	81	73	78	95	91	82	69
79	75	60	60	60	60	60	67	61	60	60	60	60	65	63	68
71	64	60	66	60	60	60	71	63	60	60	60	61	60	60	60
60	60	60	60	60	60	60	61	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	62	60	60	60	64	60	60
67	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	64	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	67	60	60
60	60	60	60	60	63	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	77	63	60	60	60	60	60
65	60	61	61	60	60	60	60	60	60	60	71	62	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	62	60	60	60	60	60	60
60	60	60	60	60	66	60	60	72	81	80	62	65	60	62	60
60	60	63	60	60	60	60	61	60	62	60	62	61	62	65	63
62	60	63	60	60	72	60	79	83	93	95	91	94	92	96	92

%EOF

ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 34960
ENTER USER CODE (4 CHARS) : 4466

ENTER JOB CODE (3 CHARS) : RBR

DATA LOGGED :14 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1224
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : 34960
JOB CODE : RBR
USER CODE : 4466
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:24

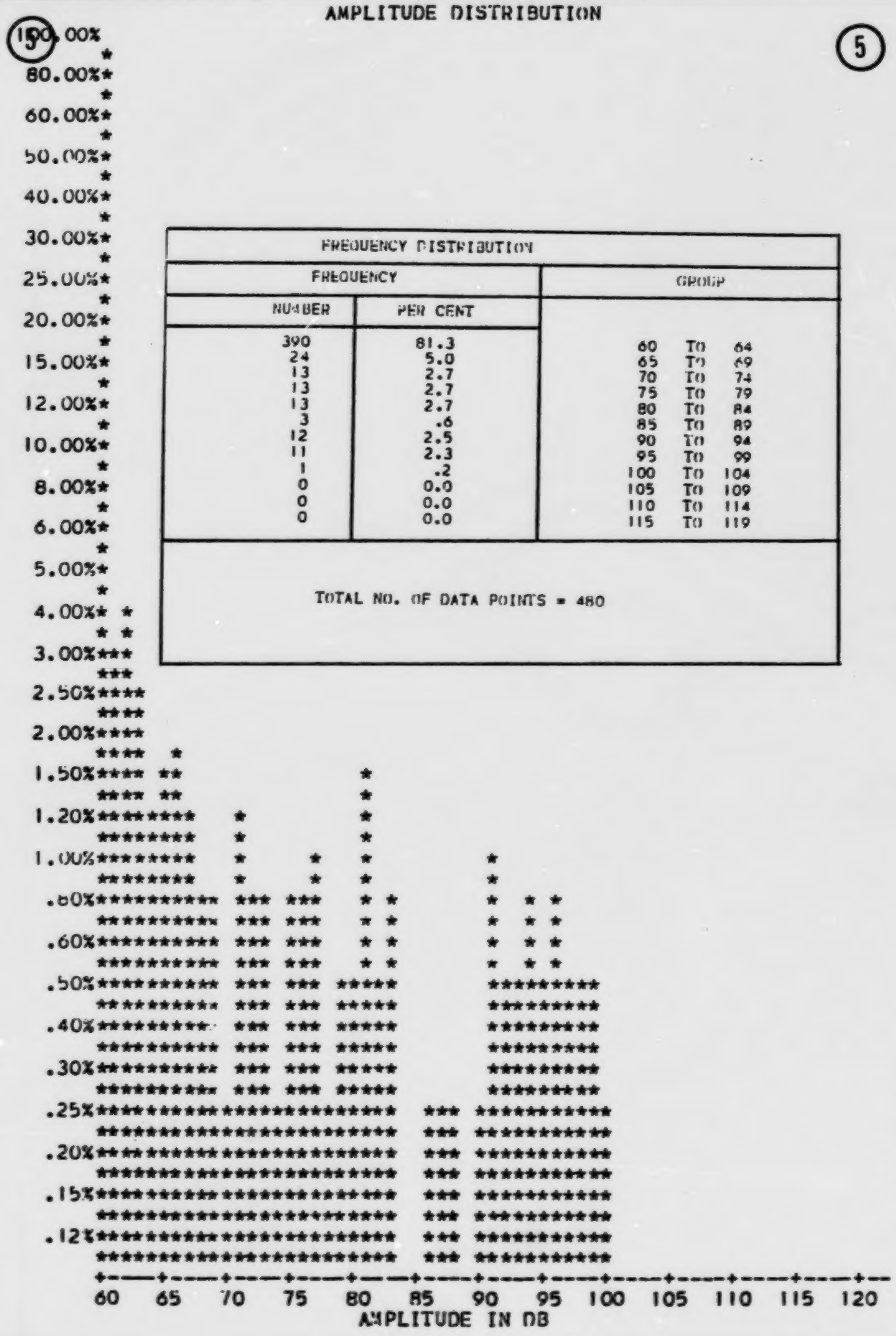
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

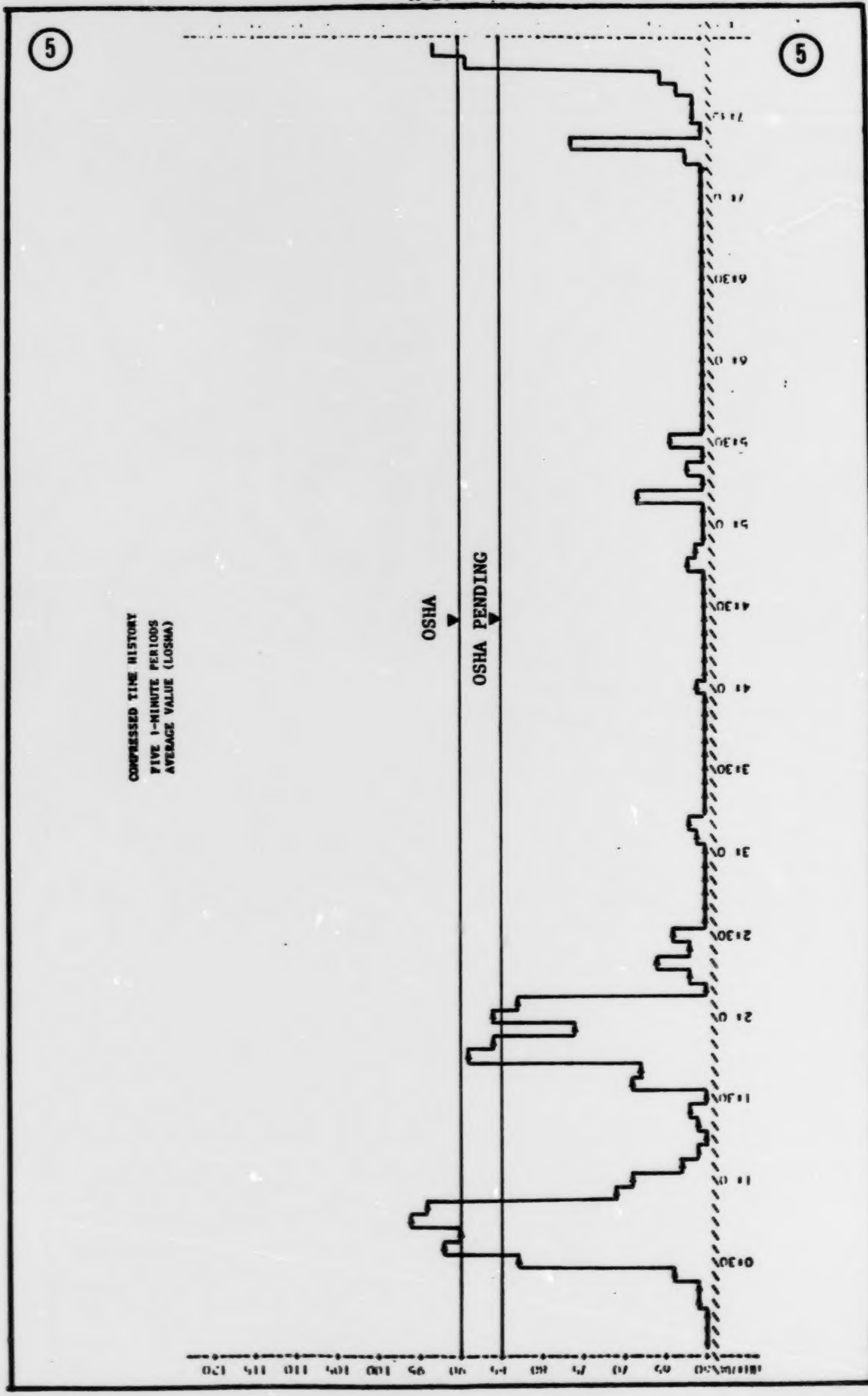
TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	NOSHA CURRENT	NOSHA CUMULATIVE
1	85.9	85.9	7.077	7.08
2	76.3	82.6	1.877	8.95
3	72.9	80.6	1.165	10.12
4	60.3	78.6	.204	10.32
5	60.3	77.2	.205	10.53
6	61.6	76.0	.245	10.77
7	60.0	75.0	.195	10.97
8	79.2	75.7	2.810	13.78

MIN. COMP. = 60 DB
MAX. COMP. = 100 DB
ARITHMETIC MEAN = 63 DB
STD. DEVIATION = 9 DB
VARIANCE = 81 DB

AMPLITUDE DISTRIBUTION



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
390	81.3	60 TO 64
24	5.0	65 TO 69
13	2.7	70 TO 74
13	2.7	75 TO 79
13	2.7	80 TO 84
3	.6	85 TO 89
12	2.5	90 TO 94
11	2.3	95 TO 99
1	.2	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		


5
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
5

(6)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1220 60 64 4 1
106 115200 480

62	61	61	60	60	64	63	61	62	65	62	62	61	64	62	61
65	74	64	67	60	63	60	64	71	66	61	72	69	66	61	63
70	67	68	78	77	68	65	70	78	69	72	89	86	87	91	86
93	91	88	89	94	89	98	99	101	97	104	107	104	101	93	96
90	106	103	96	91	97	106	91	90	90	97	97	92	99	83	83
86	84	[illegible]	85	[illegible]	[illegible]	[illegible]	86	85	83	84	90	91	[illegible]	85	[illegible]
84	82	85	85	85	93	93	89	84	83	89	93	89	87	92	91
90	86	87	89	90	91	87	90	90	90	90	92	[illegible]	88	96	95
96	96	85	86	86	85	87	96	88	94	103	93	99	91	87	87
80	81	[illegible]	83	[illegible]	88	91	92	[illegible]	[illegible]	89	89	91	[illegible]	91	97
92	89	91	95	91	87	87	95	86	86	87	85	84	85	89	97
94	100	91	87	88	90	86	85	96	96	93	89	93	100	88	91
87	97	96	91	85	88	95	86	88	100	92	91	93	90	86	85
84	60	69	73	80	92	87	67	85	66	69	62	69	66	94	102
108	109	102	107	106	103	104	102	100	107	108	105	102	103	103	103
103	106	99	97	102	101	100	103	103	102	97	92	110	109	106	100
102	100	104	103	105	100	105	99	99	95	102	104	102	105	104	103
100	90	99	99	98	94	108	103	100	108	101	100	94	96	107	106
100	90	98	103	100	110	106	103	102	102	100	94	101	101	91	87
97	89	83	83	89	91	89	86	89	89	93	95	93	68	63	67
69	64	76	70	65	85	70	60	77	64	71	84	90	84	86	90
107	93	95	109	91	86	85	85	88	92	109	102	94	91	89	85
85	83	84	86	96	102	109	110	106	101	95	110	107	108	106	106
106	104	102	103	103	105	107	93	106	106	108	105	102	105	104	104
96	103	96	102	97	80	69	96	104	86	60	64	60	60	70	99
106	103	103	99	91	87	90	90	87	90	91	92	91	96	85	92
93	95	88	87	87	89	98	96	90	88	90	89	89	89	95	97
104	103	103	101	94	110	111	104	105	104	103	104	102	105	105	105
102	99	98	100	102	103	101	96	100	103	99	95	99	103	104	99
101	84	91	94	89	100	102	97	88	93	89	81	74	78	81	86

%EOF

(6)

ENTER LOG DATE (DD/MM/YR) : 15/08/79
ENTER SITE CODE (5 CHARS) : 15H23
ENTER USER CODE (4 CHARS) : 4103
ENTER JOB CODE (3 CHARS) : RBR

DATA LOGGED :15 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1220
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : 15H23
JOB CODE : [illegible]
USER CODE : 4103
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

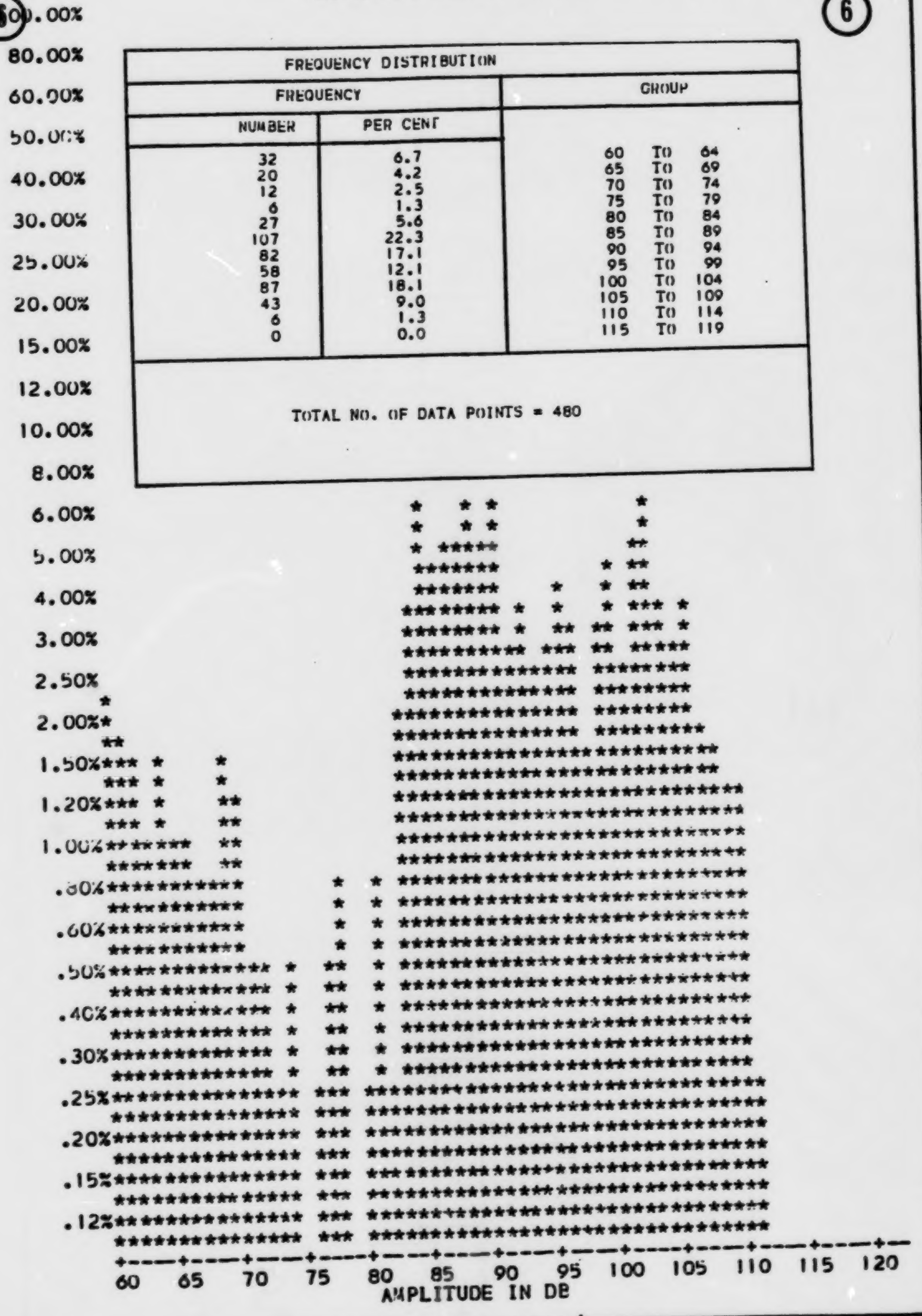
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible]
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 90 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOG A CURRENT	LOG A CUMULATIVE	NEI CURRENT	NEI CUMULATIVE
1	87.8	87.8	9.154	9.15
2	92.7	90.7	18.277	27.43
3	91.4	90.9	15.263	42.69
4	97.8	93.4	37.096	79.79
5	102.4	96.3	70.116	149.91
6	95.4	96.2	26.310	176.22
7	100.8	97.0	55.890	232.11
8	99.9	97.5	49.114	281.22

MIN. COMP. = 60 DB
MAX. COMP. = 111 DB
ARITHMETIC MEAN = 90 DB
STD. DEVIATION = 12 DB
VARIANCE =144 DB

AMPLITUDE DISTRIBUTION

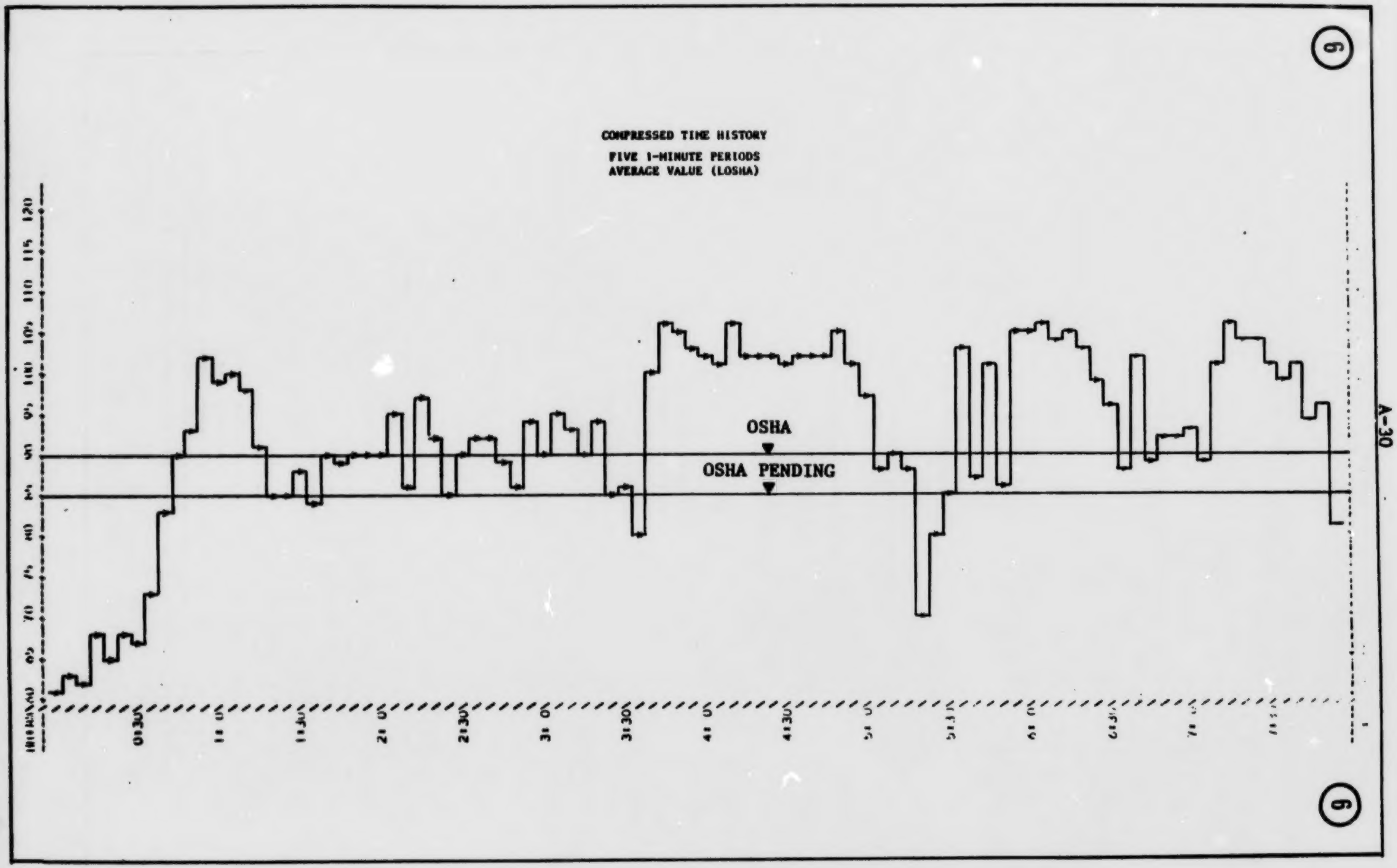
6



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
32	6.7	60 TO 64
20	4.2	65 TO 69
12	2.5	70 TO 74
6	1.3	75 TO 79
27	5.6	80 TO 84
107	22.3	85 TO 89
82	17.1	90 TO 94
58	12.1	95 TO 99
87	18.1	100 TO 104
43	9.0	105 TO 109
6	1.3	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


6
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
120
115
110
0:30
1:30
2:30
3:30
4:30
6

(7) (7)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1216 60 64 4 1

31 115200 480

66	61	60	60	60	60	61	70	76	65	67	74	64	63	67	71
74	67	61	73	63	61	65	63	69	60	61	61	61	70	65	61
60	78	77	71	77	80	90	87	61	69	82	61	62	74	73	71
61	60	60	61	70	70	60	60	60	60	60	60	66	74	60	60
64	78	80	79	62	60	74	66	60	67	61	65	68	61	60	60
60	60	60	60	60	60	70	64	62	60	62	83	81	65	67	81
83	87	89	83	83	86	89	95	74	60	60	60	60	60	93	89
89	75	83	72	87	86	92	83	60	79	92	82	82	83	86	89
75	69	89	90	84	87	82	70	62	80	79	66	61	60	60	61
69	60	77	85	87	87	86	82	99	89	85	93	92	100	94	101
93	101	100	102	106	101	97	97	102	107	101	94	100	103	103	103
93	89	106	111	111	104	93	103	97	96	83	90	65	64	65	63
61	69	75	60	60	60	78	93	101	104	86	72	76	90	94	93
100	101	99	105	103	100	102	88	95	101	88	75	90	94	97	85
77	100	99	81	76	73	77	62	69	75	61	60	60	79	66	70
81	81	63	80	62	65	72	68	69	65	78	67	75	68	61	60
65	61	65	67	70	61	63	67	61	60	61	65	69	65	64	60
60	60	62	60	71	64	71	60	60	65	65	68	60	63	66	65
63	60	60	60	60	60	60	60	67	64	65	70	71	81	80	72
77	81	73	91	96	99	93	96	81	71	69	95	104	97	94	90
71	77	69	76	77	75	61	60	74	77	78	62	60	60	69	79
83	90	68	60	60	60	65	65	63	60	65	82	86	60	60	87
82	90	83	77	83	83	78	85	60	60	60	60	66	60	60	60
60	63	88	93	69	72	69	68	61	60	64	60	60	79	66	62
60	60	73	67	91	91	82	63	88	84	88	90	85	64	66	70
69	65	93	89	97	95	76	82	82	80	81	78	77	79	80	73
94	87	91	90	85	89	98	87	86	97	98	98	92	91	96	90
96	93	83	79	80	77	74	60	69	62	81	85	86	80	77	62
60	69	60	70	71	67	60	72	60	60	61	60	64	63	60	60
65	78	77	93	89	62	70	60	68	62	60	68	68	60	66	64

%EOF

ENTER LOG DATE (DD/MM/YR) : 16/08/79
ENTER SITE CODE (5 CHARS) : 00000

ENTER USER CODE (4 CHARS) : 4550
ENTER JOB CODE (3 CHARS) : RBO

DATA LOGGED :16 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1216
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : 00000
JOB CODE : RBO
USER CODE : 4550
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0: 7

TIME HISTORY ANALYSIS

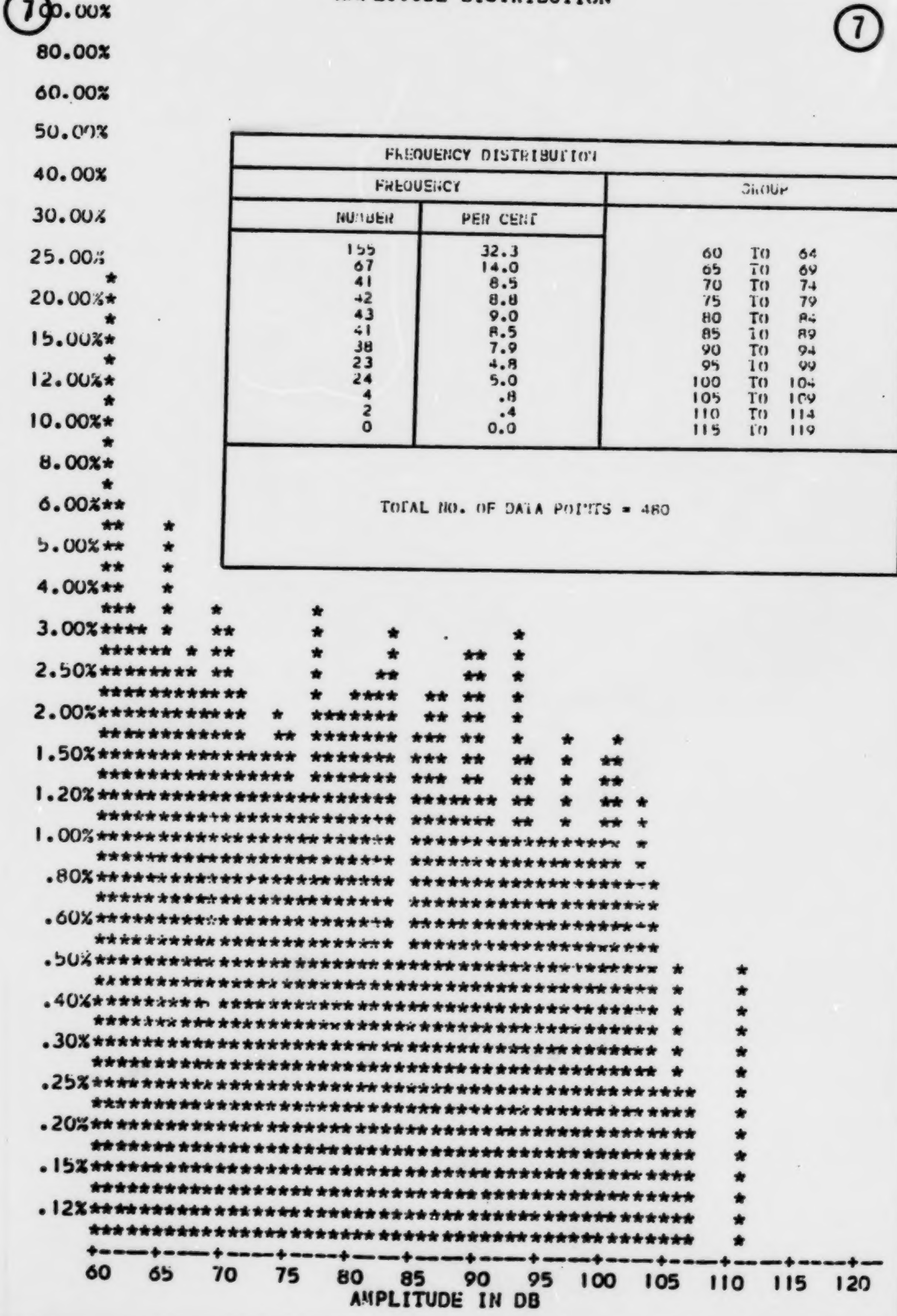
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible] = [illegible] / [illegible]
EXCHANGE ([illegible]) RATE = 5 dB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	71.6	71.8	1.000	1.00
2	80.3	77.2	3.247	4.2[illegible]
3	95.0	87.1	[illegible]	32.9[illegible]
4	94.8	91.0	[illegible]	57.22
5	67.8	89.4	.578	57.80
6	86.3	89.0	7.464	65.26
7	83.2	88.4	4.870	70.13
8	85.1	[illegible]	6.34[illegible]	76.50

MIN. COMP. = 60 DB
MAX. COMP. = 111 DB
ARITHMETIC MEAN = 74 DB
STD. DEVIATION = 14 [illegible]
VARIANCE =[illegible] DB

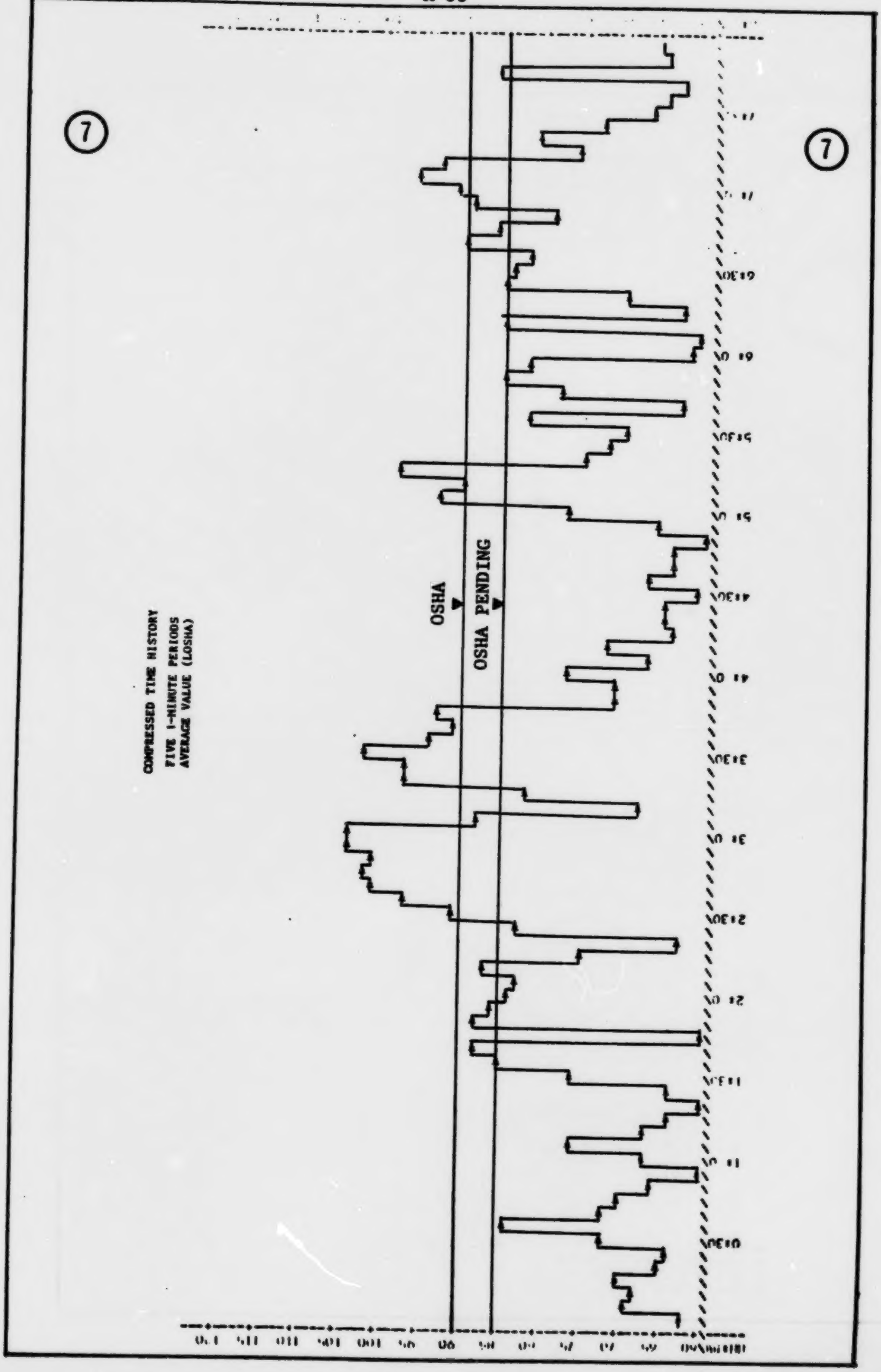
AMPLITUDE DISTRIBUTION

(7)



FREQUENCY DISTRIBUTION				
FREQUENCY		GROUP		
NUMBER	PER CENT			
155	32.3	60	TO	64
67	14.0	65	TO	69
41	8.5	70	TO	74
42	8.8	75	TO	79
43	9.0	80	TO	84
41	8.5	85	TO	89
38	7.9	90	TO	94
23	4.8	95	TO	99
24	5.0	100	TO	104
4	.8	105	TO	109
2	.4	110	TO	114
0	0.0	115	TO	119

TOTAL NO. OF DATA POINTS = 480



7
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
7

(8) (8)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1	26	80	1213	60	64	4	1								
	184		115200	480											
70	69	67	60	65	65	73	68	62	70	69	71	70	62	63	66
67	82	79	84	84	98	87	91	95	93	97	90	93	95	93	92
92	97	89	86	81	50	60	62	63	60	60	61	60	63	60	60
63	60	60	60	60	60	60	62	83	84	88	97	103	104	104	104
104	103	106	104	104	103	103	104	104	103	102	103	104	103	103	102
101	94	95	91	92	94	87	90	91	92	91	90	87	87	87	94
87	87	91	98	98	98	103	102	102	103	103	105	103	103	104	103
103	103	102	102	95	95	99	99	97	100	101	101	104	102	102	99
95	78	79	76	71	99	95	94	88	85	92	101	97	77	94	[illegible]
92	92	102	97	99	102	104	104	105	104	103	103	103	103	101	105
104	103	102	102	103	103	103	102	99	97	93	90	90	92	94	90
90	88	93	92	97	88	84	85	84	84	87	60	60	60	60	79
94	99	104	103	102	102	102	104	103	103	103	97	95	93	91	90
85	85	88	87	93	95	93	91	99	104	103	104	103	103	103	103
97	101	103	102	102	98	94	86	94	98	91	80	65	70	63	76
88	72	66	77	67	77	80	60	62	60	80	99	95	85	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	64	60	61	61	60	61	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	97	85	91	84	86	87
88	90	87	89	87	86	87	86	80	86	91	88	83	86	88	93
95	99	101	103	103	102	100	103	103	103	102	98	103	102	101	99
90	83	87	97	100	99	99	98	102	103	102	102	98	97	100	101
100	101	101	101	101	101	102	104	103	102	101	94	88	91	93	91
87	87	90	87	95	94	84	84	90	96	100	104	104	103	102	104
104	104	102	101	101	102	102	102	103	104	102	93	82	78	86	82
86	90	89	86	86	87	96	95	87	86	84	85	84	85	87	92
89	84	84	86	84	82	95	96	94	97	91	81	82	84	85	84
90	90	81	83	82	68	63	62	60	60	60	60	60	60	60	60
60	61	60	67	65	60	64	67	60	77	84	77	60	60	60	60
60	60	60	60	60	61	67	60	60	60	76	83	90	90	95	94

&EOF

ENTER LOG DATE (DD/MM/YR) : 20/08/79
ENTER SITE CODE (5 CHARS) : 30950
ENTER USER CODE (4 CHARS) : 4262
ENTER JOB CODE (3 CHARS) : 271

DATA LOGGED :20 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1213
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 30950
JOB CODE : 271
USER CODE : 4262
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

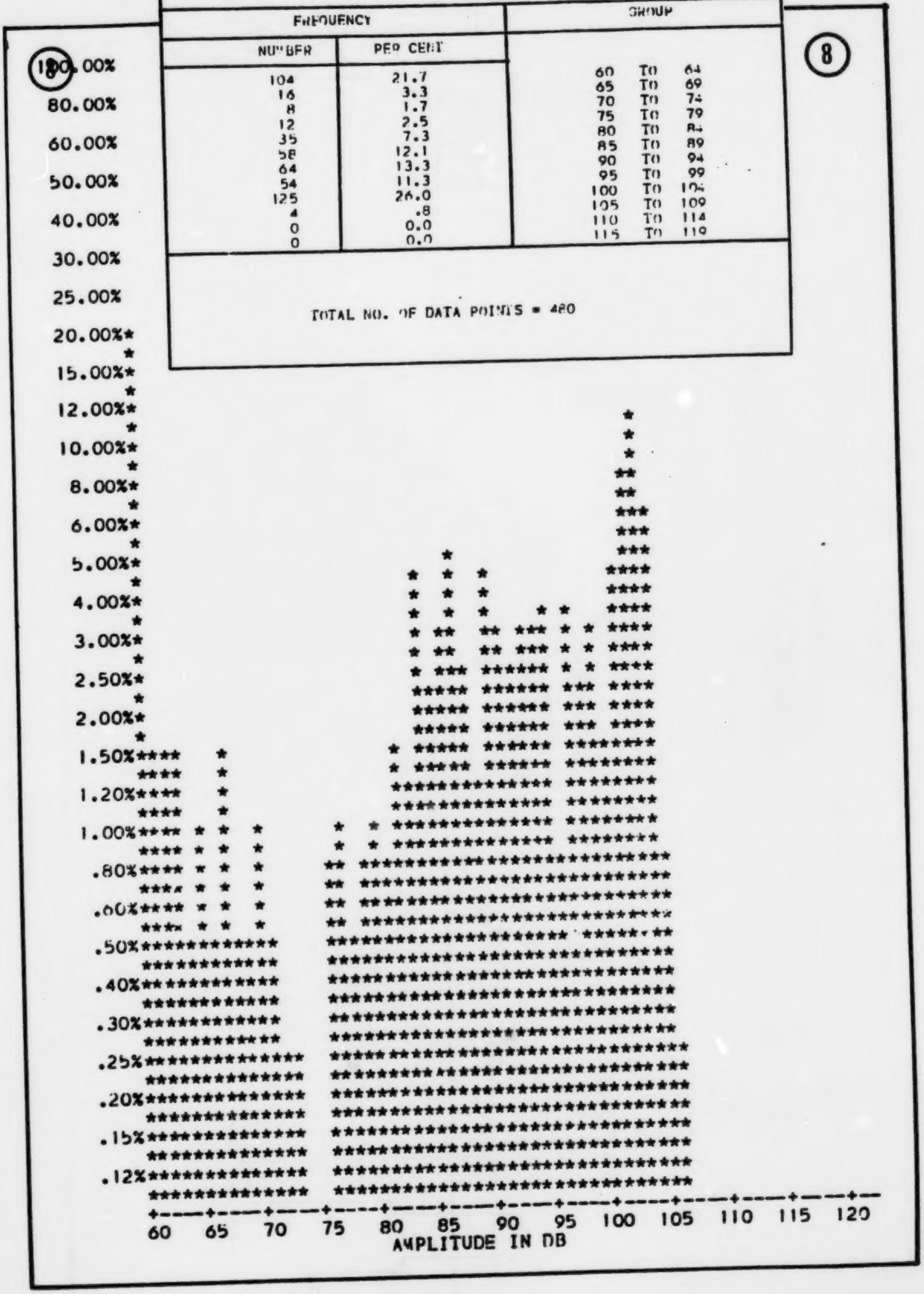
TIME	LOSHA		[illegible]	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	85.2	85.2	6.410	6.41
2	100.6	96.4	54.287	60.70
3	99.1	97.4	44.195	[illegible]
4	97.3	97.4	34.504	139.40
5	76.8	95.9	2.010	141.41
6	98.2	96.3	38.823	180.23
7	95.5	96.4	31.414	211.65
8	83.2	95.6	4.852	216.50

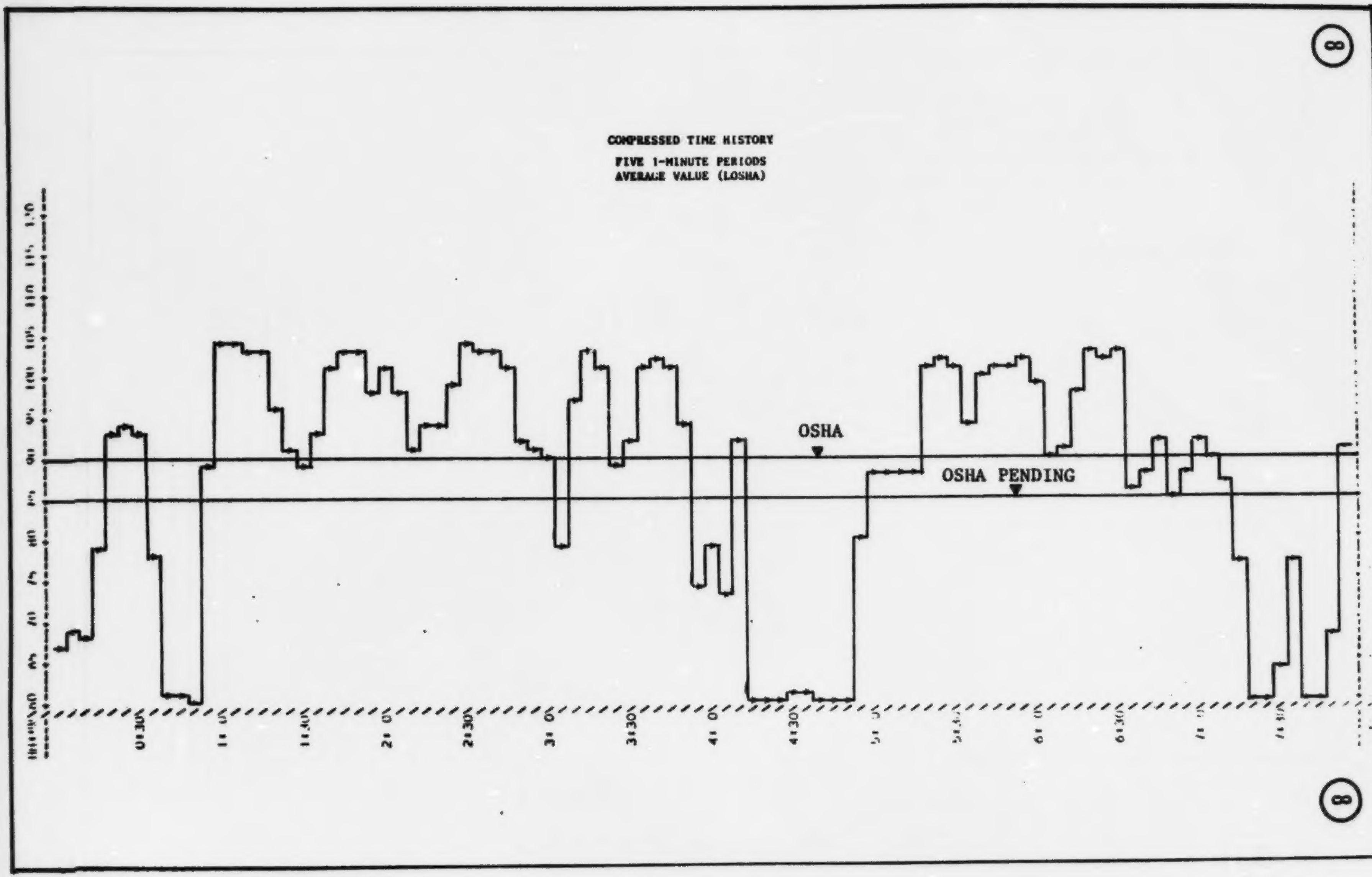
MIN. COMP. = 60 DB
MAX. COMP. = 106 DB
ARITHMETIC MEAN = 85 DB
STD. DEVIATION = 16 DB
VARIANCE =256 DB

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
104	21.7	60 TO 64
16	3.3	65 TO 69
8	1.7	70 TO 74
12	2.5	75 TO 79
35	7.3	80 TO 84
58	12.1	85 TO 89
64	13.3	90 TO 94
54	11.3	95 TO 99
125	26.0	100 TO 104
4	.8	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(8)




8
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
8

(9) (9)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
1 26 80 1214 60 64 4 1
118 115200 480

60	60	60	60	60	60	60	60	60	60	60	61	60	60	66	69
69	65	71	60	60	61	65	60	65	62	62	60	60	67	65	65
61	67	90	92	93	90	86	87	95	90	86	80	85	86	91	80
65	69	66	60	60	60	60	60	62	60	69	63	60	60	60	60
60	61	66	65	60	60	60	77	67	61	72	60	63	70	79	75
81	71	61	62	64	62	60	83	80	78	79	87	86	86	89	88
87	91	87	86	88	87	89	88	87	87	87	87	87	87	87	87
87	87	87	87	87	87	86	86	85	85	90	90	87	85	85	85
86	86	86	87	85	80	81	83	84	79	81	81	81	81	86	86
86	82	86	86	84	79	60	70	60	61	60	60	64	66	60	60
60	60	60	70	61	60	60	60	60	60	60	60	60	60	60	71
60	60	61	60	60	62	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	63
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	61	63	64	61	60	74	60	62	60	67	60	60
60	60	60	61	60	60	66	60	60	60	61	60	60	60	60	60
60	61	60	60	64	61	60	60	65	62	61	60	60	65	60	60
60	60	60	60	60	60	60	60	60	61	60	60	60	60	60	62
60	60	60	61	60	60	61	60	60	60	62	65	65	60	60	60
60	64	62	60	65	60	66	60	60	70	66	69	74	71	71	63
92	88	63	76	60	61	62	62	71	92	72	66	61	60	62	85
93	87	93	86	83	76	67	82	75	62	81	86	60	63	62	60
60	60	61	61	70	88	83	79	60	90	86	60	60	61	60	60
60	70	91	93	82	102	96	94	92	94	96	93	93	93	94	99
101	102	99	94	101	95	96	93	92	94	93	94	95	96	92	94
94	99	102	98	95	89	91	86	86	89	91	97	92	90	92	91
88	88	100	97	95	94	94	92	90	93	97	92	88	89	99	94
79	60	60	60	60	78	91	90	94	95	94	88	78	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

%EOF

ENTER LOG DATE (DD/MM/YR) : 21/08/79

ENTER SITE CODE (5 CHARS) : 00371
ENTER USER CODE (4 CHARS) : 4733

ENTER JOB CODE (3 CHARS) : 213

DATA LOGGED :21 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1214
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 00371
JOB CODE : 213
USER CODE : 4733
THRESHOLD : [illegible]
TOTAL SAMPLES = 11520
STANDBY TIME = 0: 0:22

TIME HISTORY ANALYSIS

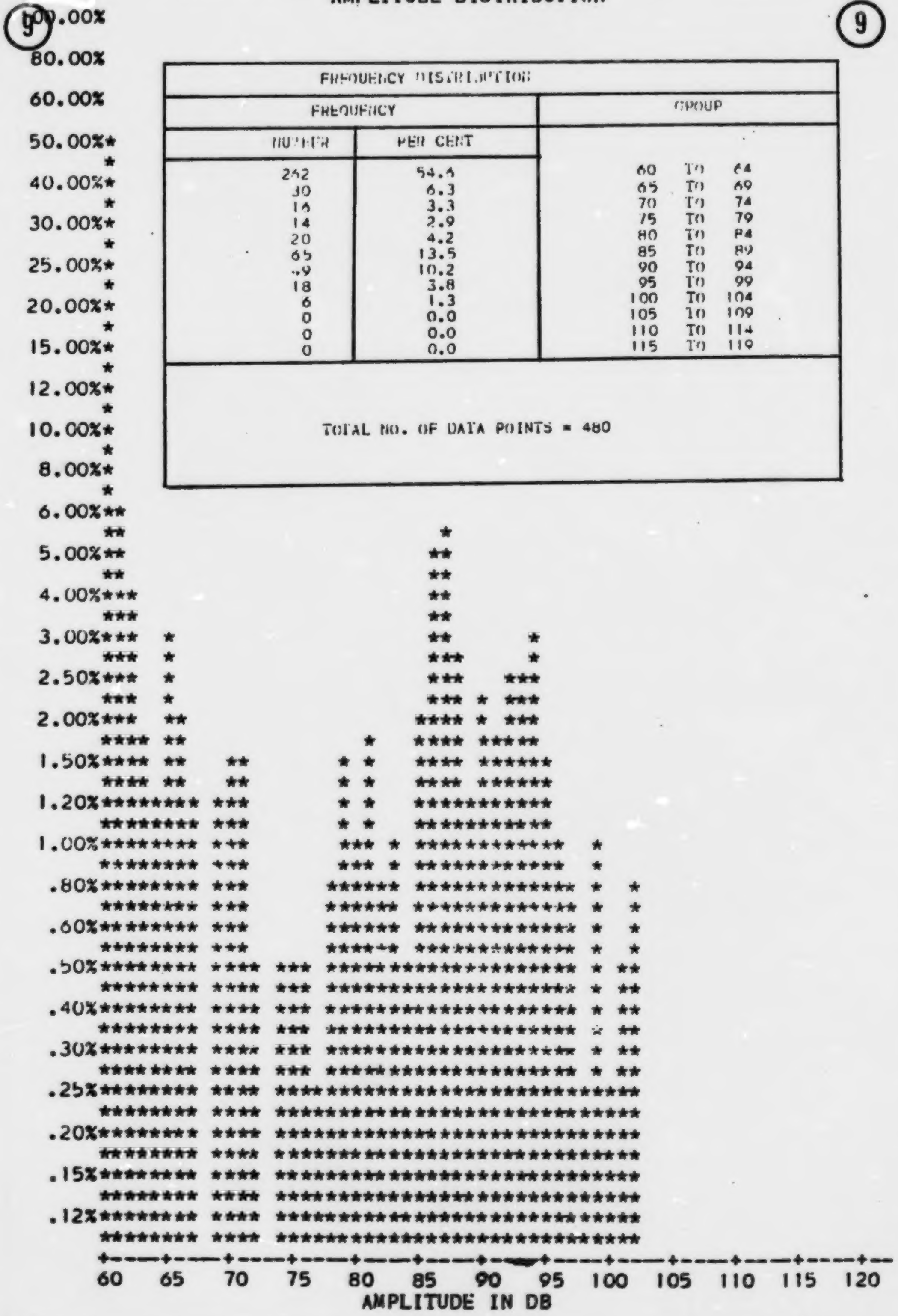
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = [illegible] DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	79.2	79.2	2.815	2.82
2	82.9	81.3	4.660	7.48
3	80.3	81.0	3.258	10.73
4	60.1	79.0	.198	10.93
5	61.6	77.6	.243	11.17
6	77.4	77.6	2.192	13.37
7	92.5	82.5	17.597	30.96
8	89.0	83.7	10.884	41.85

MIN. COMP. = 60 DB
MAX. COMP. = 102 DB
ARITHMETIC MEAN = 71 DB
STD. DEVIATION = 14 DB
VARIANCE =196 DB

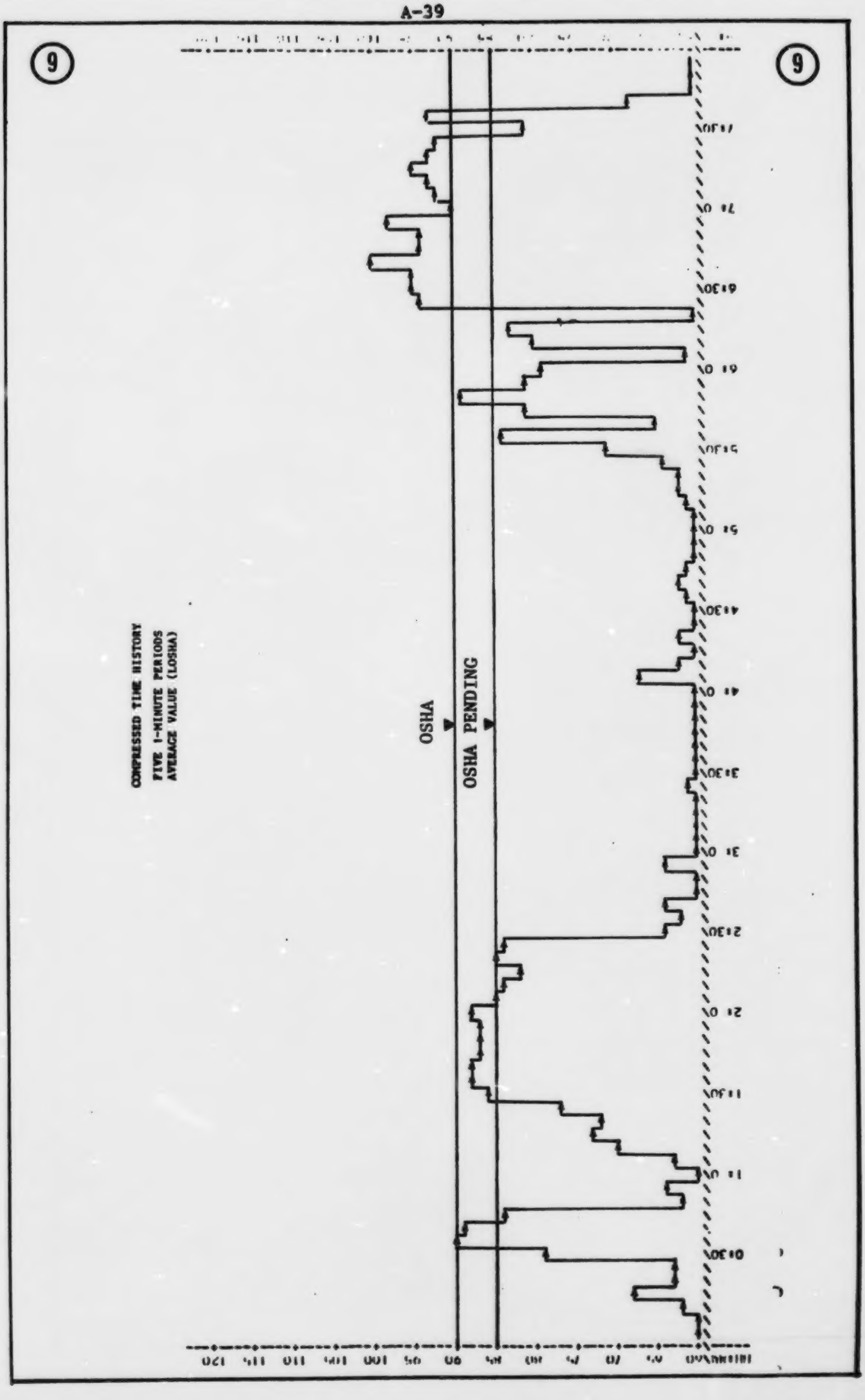
AMPLITUDE DISTRIBUTION

9



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
262	54.6	60 TO 64
30	6.3	65 TO 69
16	3.3	70 TO 74
14	2.9	75 TO 79
20	4.2	80 TO 84
65	13.5	85 TO 89
49	10.2	90 TO 94
18	3.8	95 TO 99
6	1.3	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


9
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(10) (10)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1213 60 64 4 1

100 115200 480

62	76	61	60	67	60	60	60	60	60	60	60	60	60	60	63
60	60	60	60	60	63	61	60	60	67	72	67	61	61	68	70
71	74	82	96	95	94	99	91	94	92	88	94	93	92	90	93
85	83	72	74	73	74	61	65	60	67	66	66	72	67	61	72
60	60	68	70	[illegible]	70	75	65	66	77	73	74	81	91	84	75
61	79	69	66	65	63	61	73	67	69	62	60	71	60	63	61
60	62	67	73	60	60	60	60	78	73	69	79	64	60	65	69
60	77	60	71	60	60	60	60	60	72	60	60	60	72	83	72
62	68	77	63	60	72	72	75	60	60	60	60	60	60	60	60
60	64	64	76	72	72	71	68	79	72	73	76	60	60	60	[illegible]
69	66	61	68	73	67	66	85	77	69	74	64	65	68	65	65
65	72	67	67	70	73	79	66	65	60	63	[illegible]	76	67	79	62
73	76	68	69	61	67	77	62	71	82	63	63	72	73	63	75
60	60	60	60	61	70	61	73	80	77	80	64	65	83	60	60
60	60	63	75	83	82	80	82	81	78	80	84	80	79	84	87
77	71	76	73	70	72	60	61	65	79	73	60	70	74	64	75
60	60	72	73	79	80	77	87	62	65	60	82	63	74	69	88
84	83	71	61	65	60	63	75	69	78	68	80	65	60	60	60
70	60	62	60	66	68	60	60	63	60	68	60	[illegible]	71	70	75
67	71	71	74	82	62	60	64	72	61	60	69	[illegible]	62	65	67
67	74	77	85	60	68	67	66	60	60	60	60	63	75	60	70
60	71	65	72	73	73	70	72	60	60	80	60	60	69	77	74
76	66	65	64	68	67	77	79	80	68	60	60	60	60	60	64
65	60	62	72	60	62	60	60	60	62	77	80	76	60	72	60
62	72	61	60	71	89	81	72	66	60	78	83	68	60	73	79
91	82	71	75	84	72	60	60	60	63	90	90	75	64	78	84
67	60	60	62	64	81	90	83	77	62	60	74	76	60	60	78
88	85	84	78	66	60	64	60	60	60	78	84	82	78	91	85
65	66	65	69	73	71	68	80	65	60	64	70	90	83	83	80
67	61	60	60	60	76	67	81	88	85	63	62	63	61	79	73

%EOF

ENTER LOG DATE (DD/MM/YR) : 23/08/79
ENTER SITE CODE (5 CHARS) : 15HAF
ENTER USER CODE (4 CHARS) : 4731
ENTER JOB CODE (3 CHARS) : 213

DATA LOGGED :23 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1213
BASELINE : [illegible]
DYNAMIC RANGE : [illegible]
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 15HAF
JOB CODE : 213
USER CODE : 4731
[illegible] : [illegible]
TOTAL SAMPLES = [illegible]
[illegible] = [illegible]

TIME HISTORY ANALYSIS

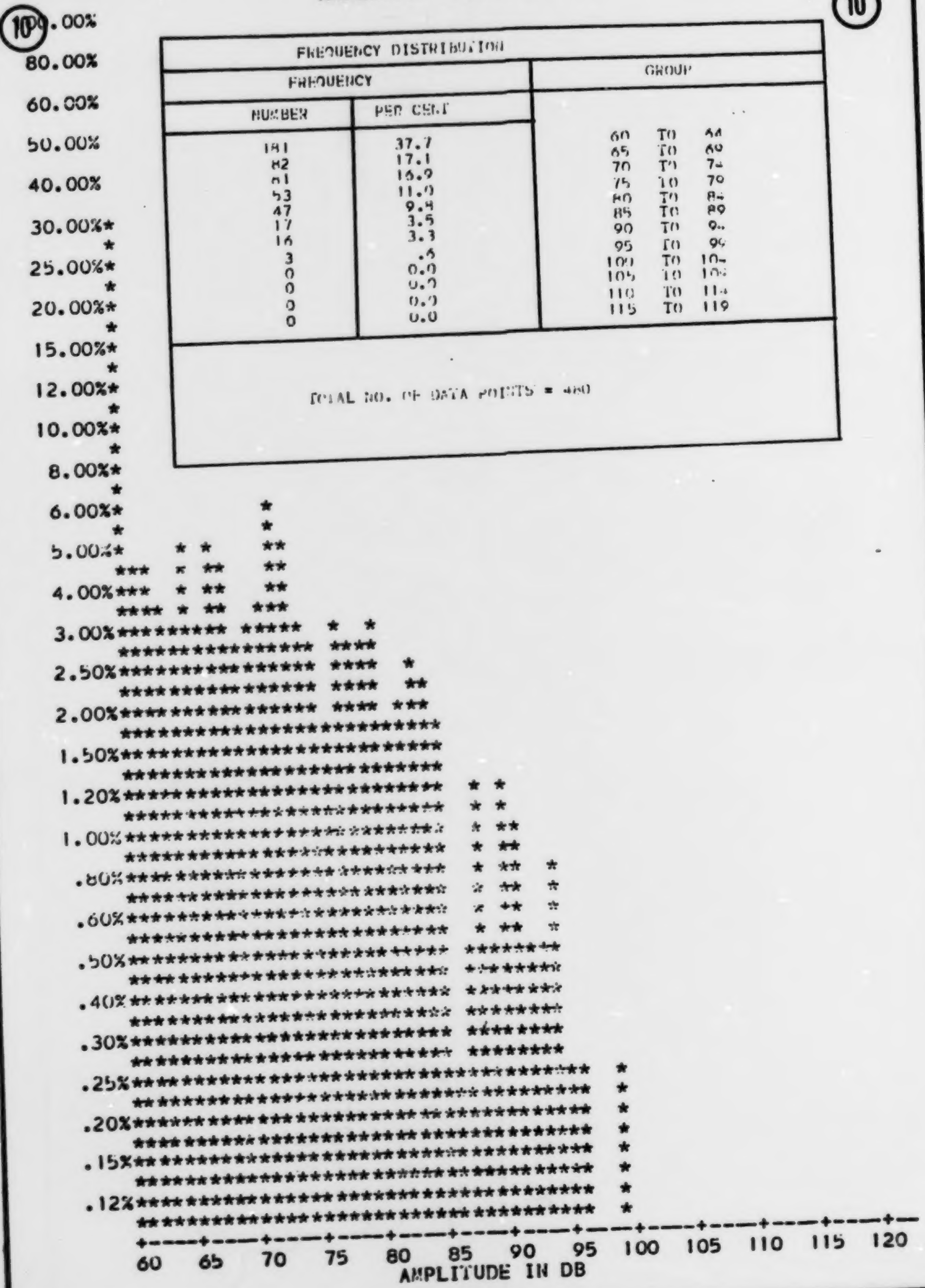
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
[illegible]
[illegible]
[illegible]
[illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	[illegible]	[illegible]	[illegible]	[illegible]
1	63.5	[illegible]	5.028	5.09
2	75.1	80.5	1.574	6.66
3	71.4	[illegible]	[illegible]	7.61
4	75.3	77.4	[illegible]	[illegible]
5	74.5	77.3	1.440	10.69
6	71.8	76.6	1.006	11.70
7	76.2	76.5	[illegible]	[illegible]
8	78.5	76.8	2.534	[illegible]

MIN. COMP. = 60 DB
MAX. COMP. = [illegible]
ARITHMETIC MEAN = 69.DB
STD. DEVIATION = 9 [illegible]
VARIANCE = 81 DB

10

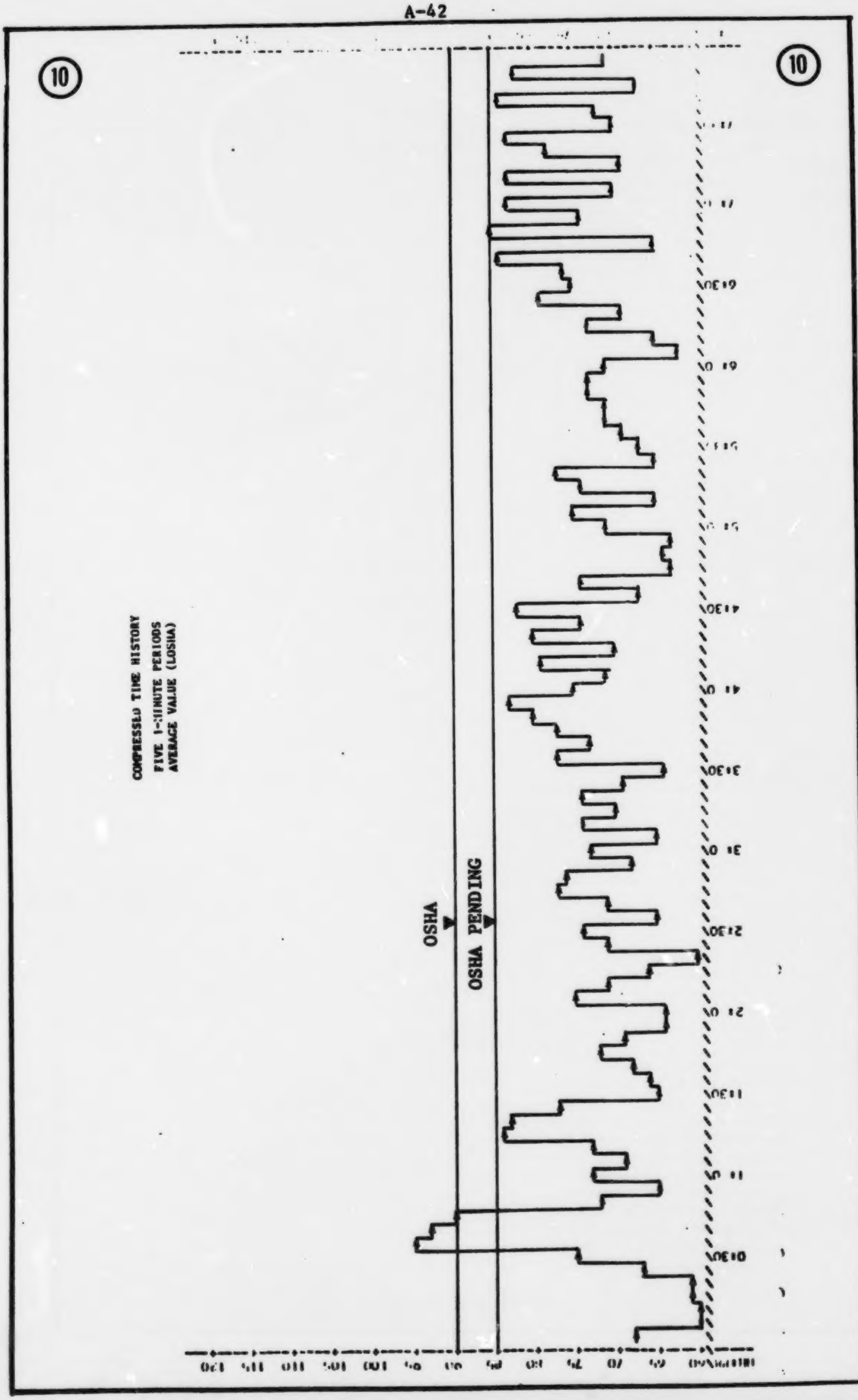
AMPLITUDE DISTRIBUTION



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
181	37.7	60 TO 64
82	17.1	65 TO 69
81	16.9	70 TO 74
53	11.0	75 TO 79
47	9.8	80 TO 84
17	3.5	85 TO 89
16	3.3	90 TO 94
3	.6	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


10
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
10

(11) (11)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1216 60 64 4 1
164 115200 480

60	60	60	68	61	67	76	61	64	60	61	62	60	69	62	64
63	83	82	88	94	96	95	85	85	104	87	85	87	88	87	89
92	88	86	84	83	101	95	99	94	98	96	91	89	95	94	92
94	92	95	88	91	81	83	81	82	79	83	89	81	81	82	82
81	82	82	72	69	88	77	74	73	61	63	62	69	82	86	71
75	79	85	80	88	84	88	91	75	78	72	72	72	73	60	61
60	60	60	74	[illegible]	75	[illegible]	60	60	[illegible]	[illegible]	74	[illegible]	93	91	[illegible]
61	75	60	67	74	72	60	60	60	60	79	60	60	60	63	67
62	76	60	82	85	62	66	83	73	88	73	75	76	66	61	61
62	60	73	65	80	81	66	60	76	71	87	65	61	80	80	60
82	85	84	80	84	84	91	83	82	95	96	95	93	92	87	84
91	81	83	83	85	84	65	80	[illegible]	[illegible]	81	81	83	81	61	[illegible]
60	60	91	83	81	82	83	94	94	95	94	87	61	82	83	82
62	61	60	80	61	81	66	82	[illegible]	86	87	93	84	80	89	80
79	79	79	82	85	86	67	86	84	84	83	82	82	83	83	[illegible]
96	91	83	83	86	83	86	81	80	85	87	93	81	81	81	93
86	81	79	80	83	85	93	86	94	78	76	72	88	80	81	83
88	97	90	85	79	81	81	81	81	82	81	84	83	88	79	79
78	81	76	78	78	79	81	80	78	79	79	76	80	79	82	83
80	83	79	80	61	86	80	80	80	80	80	80	80	87	85	80
80	80	81	80	84	81	85	83	81	81	80	80	80	81	88	80
87	83	82	83	83	83	85	84	84	84	83	89	90	81	82	92
84	85	84	85	64	84	84	89	89	88	91	82	82	82	82	82
82	83	84	82	86	82	83	85	84	82	83	82	89	88	85	84
80	81	86	81	82	81	97	99	99	87	83	83	95	94	93	88
88	98	98	92	83	92	88	84	80	79	85	98	100	93	83	87
92	89	81	77	83	82	93	100	99	95	85	82	84	89	79	79
89	98	96	94	94	86	83	85	81	80	80	86	95	89	95	100
96	84	82	83	81	86	84	87	94	92	81	83	97	98	99	94
93	83	63	60	60	60	60	60	60	60	60	60	60	61	60	63

XEOF

ENTER LOG DATE (DD/MM/YR) : 23/08/79

ENTER SITE CODE (5 CHARS) : ISHAF
ENTER USER CODE (4 CHARS) : 4460
ENTER JOB CODE (3 CHARS) : 214

DATA LOGGED :23 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1216
[illegible]
[illegible]
SAMPLING RATE : 4/SEC
[illegible] = [illegible] 0

DATA ANALYZED : 25 SEPT 1979
SITE CODE : ISHAF
JOB CODE : 21[illegible]
USER CODE : 44[illegible]
THRESHOLD : [illegible]
TOTAL SAMPLES = [illegible]
STANDBY TIME = [illegible]

[illegible] HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
[illegible]
[illegible]
[illegible]
[illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

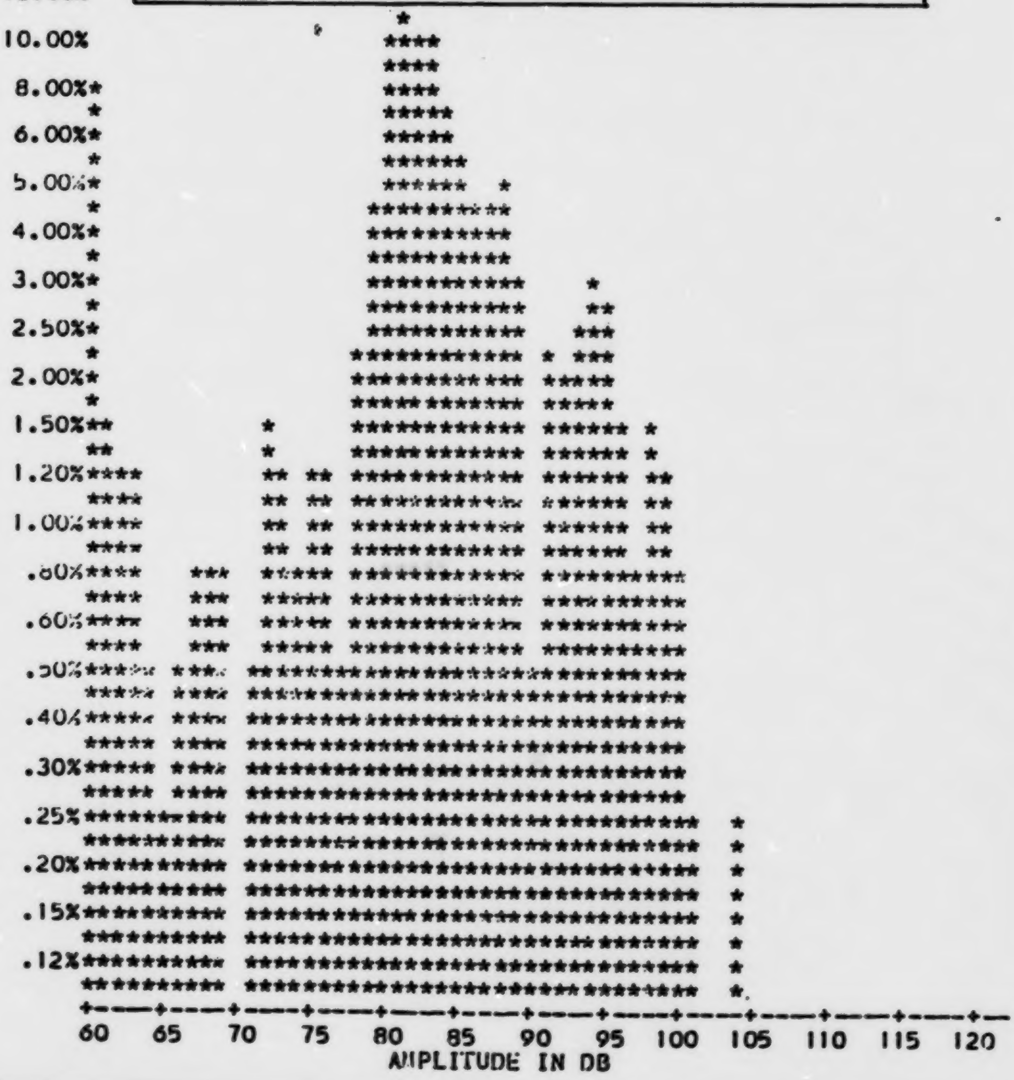
[illegible]	LOGA CURRENT	CUMULATIVE	[illegible] CURRENT	CUMULATIVE
1	89.7	89.7	11.984	11.98
2	80.6	86.5	3.3[illegible]	15.37
3	83.4	85.6	[illegible]	[illegible]
4	85.4	[illegible]	[illegible]	[illegible]
5	85.2	85.5	[illegible]	[illegible]
6	83.4	85.2	5.028	3[illegible].44
7	89.4	85.9	11.458	[illegible]
8	89.6	[illegible]	11.834	[illegible]

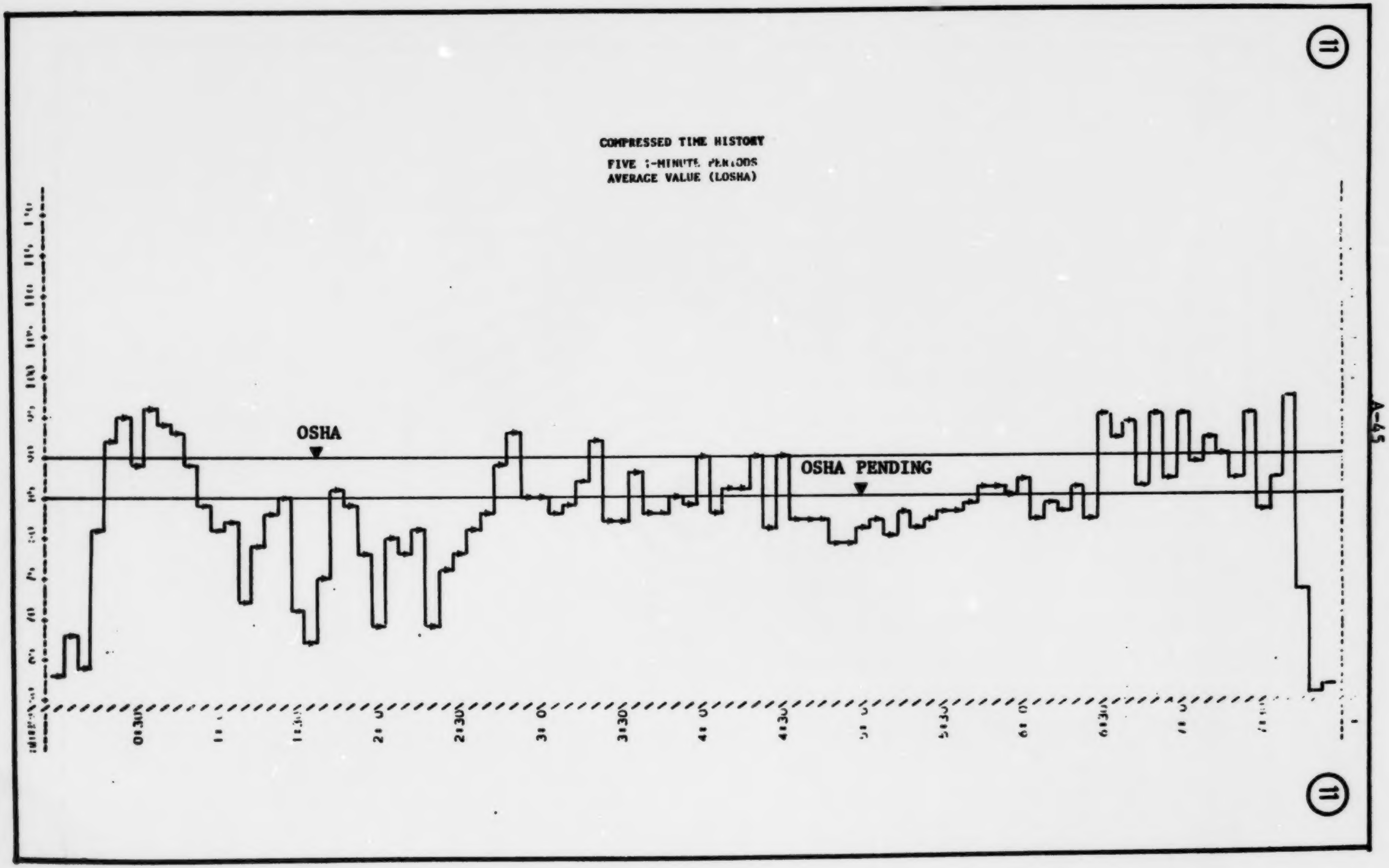
[illegible] = [illegible] MAX. COMP. = [illegible]
ARITHMETIC MEAN = 81 DB
STD. DEVIATION = [illegible]
VARIANCE = [illegible]

(11)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
49	10.2	60 TO 64
12	2.5	65 TO 69
16	3.3	70 TO 74
39	8.1	75 TO 79
197	41.0	80 TO 84
89	18.5	85 TO 89
42	8.8	90 TO 94
31	6.5	95 TO 99
5	1.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480





11
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
2:30
3:30
11

(12) (12)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1214 60 64 4 1

207 115200 480

60	60	60	60	60	73	73	69	69	62	65	68	61	61	61	62
68	61	61	64	62	65	63	72	67	63	60	61	60	63	60	62
62	65	68	69	71	67	70	63	67	68	61	64	73	67	65	86
88	85	85	96	101	98	89	91	88	92	91	93	98	101	95	89
98	93	104	100	98	101	92	90	[illegible]	83	83	[illegible]	81	82	[illegible]	[illegible]
93	83	85	87	81	83	89	86	84	85	85	86	86	91	86	90
85	93	89	84	83	84	87	89	87	96	86	84	86	86	86	87
86	85	85	83	85	88	87	86	84	83	83	83	83	84	71	78
83	[illegible]	87	76	85	76	62	69	76	75	85	75	[illegible]	85	84	[illegible]
86	88	85	86	87	86	67	90	85	89	92	95	84	84	84	84
84	85	85	89	97	93	86	83	84	97	87	85	98	87	87	87
87	86	92	96	88	88	87	87	86	96	86	89	92	26	47	[illegible]
86	87	89	85	85	88	90	86	85	86	86	86	[illegible]	86	[illegible]	[illegible]
87	86	89	93	95	94	93	91	90	86	86	86	85	85	88	90
97	92	84	87	86	86	86	85	85	85	85	85	85	84	85	87
88	97	94	82	70	68	60	63	60	60	60	60	60	60	60	60
67	80	60	60	60	67	60	66	73	60	77	73	62	64	68	87
100	102	103	99	102	103	97	91	88	86	83	91	101	90	84	88
97	89	96	88	90	97	90	88	91	99	101	91	97	94	97	94
96	88	91	86	86	86	85	94	88	90	97	87	86	91	86	86
86	85	85	83	86	98	88	85	82	87	100	94	89	85	96	87
83	85	86	86	86	89	99	103	97	95	94	96	97	93	89	89
92	97	86	99	96	99	90	91	90	97	89	90	100	100	95	90
96	91	94	100	87	85	84	84	99	92	93	100	102	102	97	98
97	97	99	100	96	99	99	93	88	89	97	101	98	98	104	101
97	93	94	88	92	86	86	87	91	102	101	101	96	98	96	99
94	104	84	94	98	98	93	98	106	97	102	100	98	89	90	84
85	91	86	85	87	95	86	99	100	101	92	90	91	94	96	93
89	91	85	97	101	101	95	101	105	86	82	83	83	83	88	101
91	97	94	92	88	84	81	81	96	91	89	99	97	81	83	89

EOF

ENTER LOG DATE (DD/MM/YR) : 17/08/70
ENTER SITE CODE (5 CHARS) : ISHAF
ENTER USER CODE (4 CHARS) : 4103
ENTER JOB CODE (3 CHARS) : R80

DATA LOGGED :17 AUG 1970
LOGGER : DB-301/26
SERIAL NUMBER : 1214
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

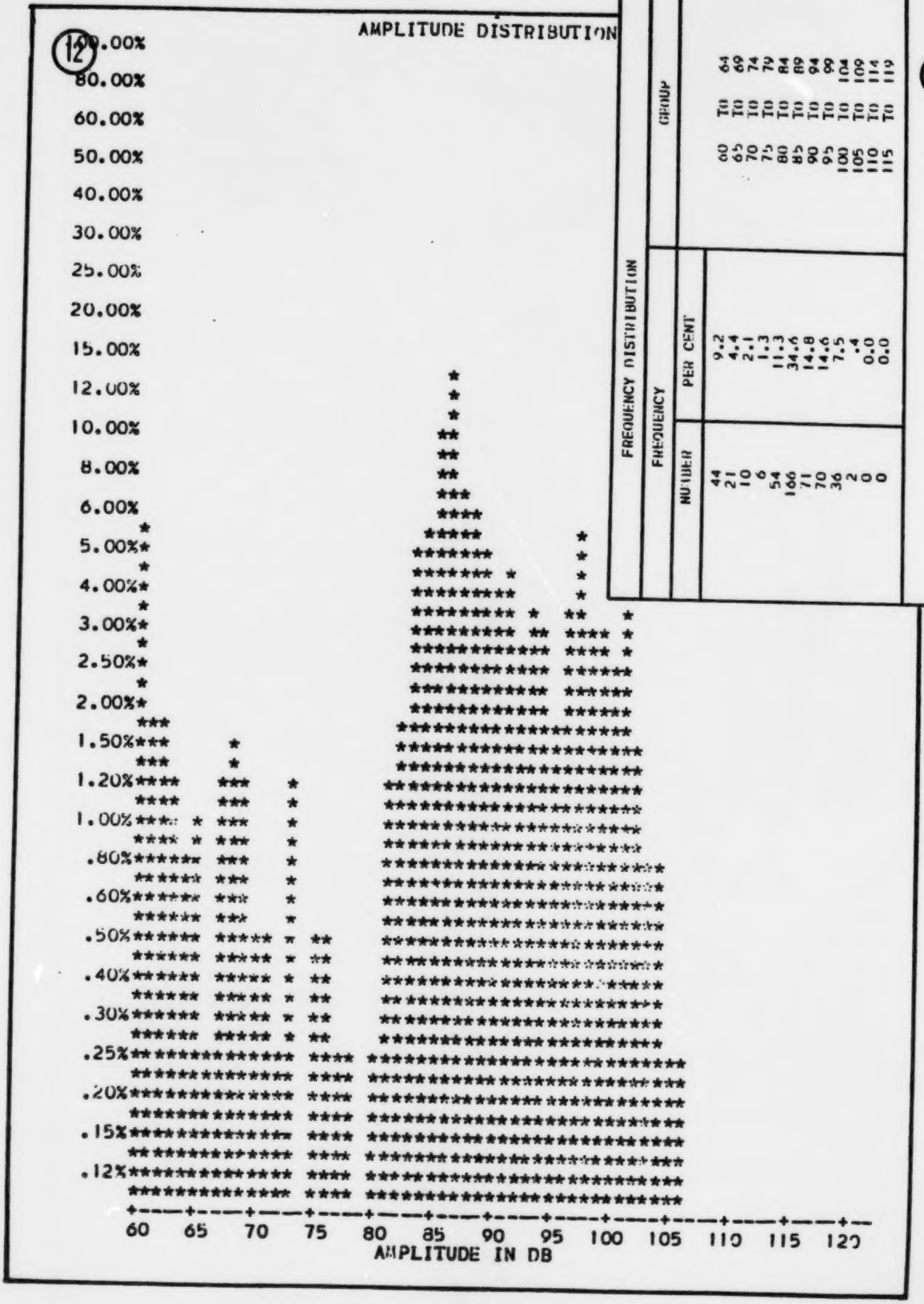
DATA ANALYZED : 21 SEPT 1979
SITE CODE : ISHAF
JOB CODE : R80
USER CODE : 4103
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible]
EXCHANGE (CORRECTION) RATE = [illegible]
THRESHOLD (CUTOFF) LEVEL = [illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		[illegible]	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	82.3	82.3	4.308	4.31
2	90.5	87.5	13.470	17.78
3	87.3	87.5	8.635	26.41
4	88.3	87.7	9.208	35.62
5	91.4	88.6	15.257	51.58
6	92.6	89.5	17.972	69.55
7	96.7	91.0	31.600	101.15
8	95.1	91.7	25.216	126.37

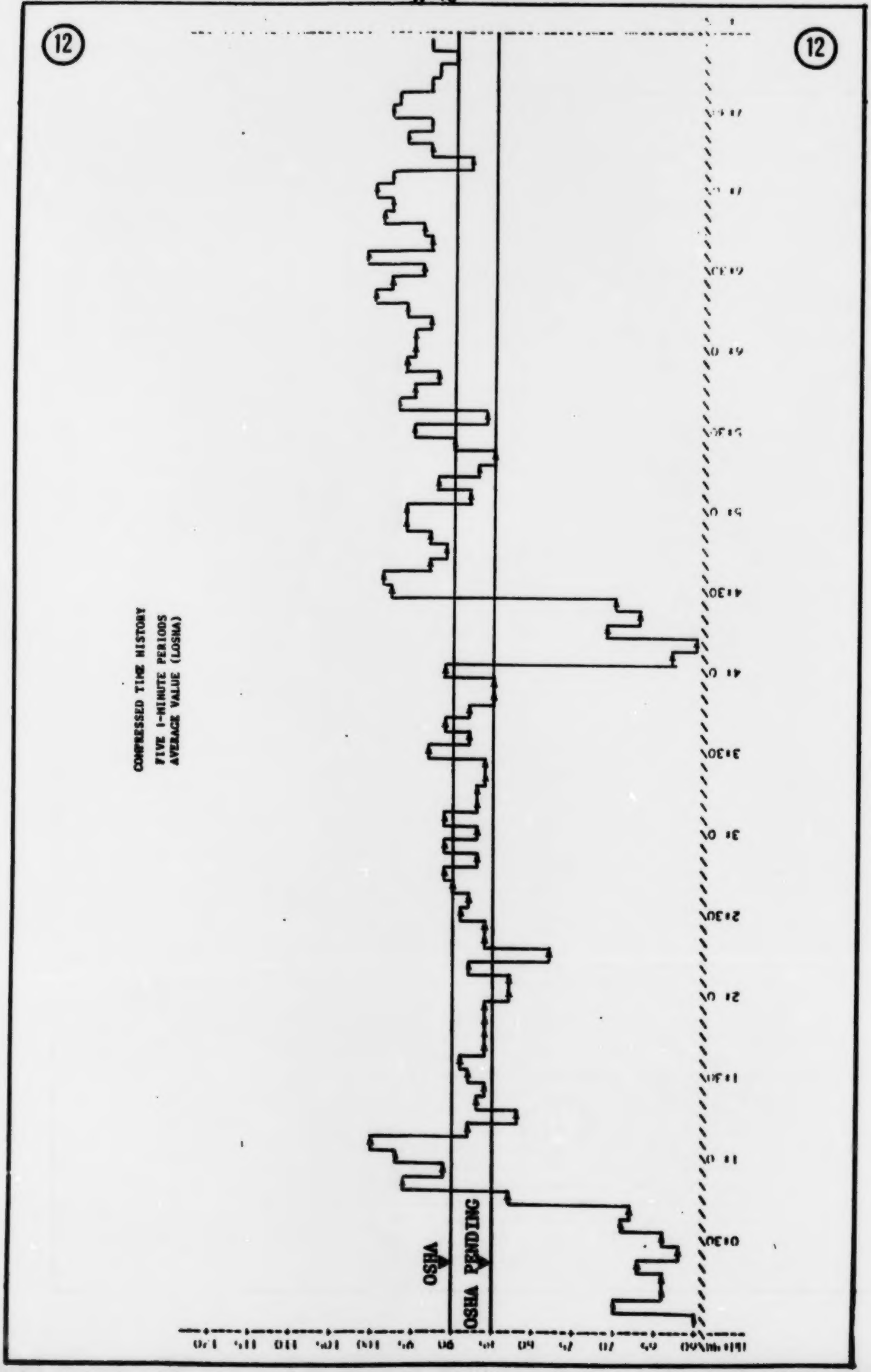
MIN. COMP. = 60 DB
MAX. COMP. = 106 DB
ARITHMETIC MEAN = 86 DB
STD. DEVIATION = 11 DB
VARIANCE =121 DB



FREQUENCY DISTRIBUTION (12)

GROUP	FREQUENCY NUMBER	FREQUENCY PER CENT
60 TO 64	44	9.2
65 TO 69	21	4.4
70 TO 74	10	2.1
75 TO 79	6	1.3
80 TO 84	54	11.3
85 TO 89	166	34.6
90 TO 94	71	14.8
95 TO 99	70	14.6
100 TO 104	36	7.5
105 TO 109	2	.4
110 TO 114	0	0.0
115 TO 119	0	0.0

TOTAL NO. OF DATA POINTS = 480



12
12
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(13)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1   26   80   1219   60   64    4    1
      80        115200    480
```

60	60	60	60	60	60	60	60	60	60	67	68	61	66	70	60
63	60	62	65	69	66	69	62	67	61	62	60	60	68	68	60
62	60	62	60	60	60	65	60	61	65	64	64	70	65	65	63
64	67	69	68	68	87	87	76	61	81	89	83	71	88	77	77
78	84	93	97	90	71	89	84	93	92	85	89	80	83	84	88
81	61	[illegible]	[illegible]	71	83	[illegible]	[illegible]	91	92	88	87	[illegible]	92	89	[illegible]
86	87	88	63	66	64	[illegible]	94	97	93	102	102	104	104	101	92
61	96	99	105	101	97	97	98	97	99	97	97	92	97	98	98
68	80	93	94	91	69	60	60	60	60	60	65	60	60	60	60
67	67	71	60	60	60	60	73	60	60	63	97	86	99	104	96
94	98	90	92	89	92	86	85	91	94	87	60	60	60	60	60
60	60	60	60	72	60	60	63	60	60	77	87	84	75	71	60
60	60	60	60	60	60	60	60	60	61	60	62	60	60	60	60
60	61	60	60	61	65	63	60	60	60	60	65	60	60	60	70
91	95	92	98	99	98	100	97	100	105	108	105	60	69	60	60
60	60	64	84	97	101	97	102	106	104	96	82	60	60	60	60
67	96	101	105	100	107	107	108	107	104	106	107	72	60	75	95
98	103	98	83	60	61	60	60	60	60	60	60	60	65	60	89
99	95	104	82	60	60	60	60	60	60	60	60	60	60	60	60
60	64	60	60	60	60	60	60	60	60	60	61	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	81	60	60	60	60	60
60	60	60	60	66	60	60	60	61	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	61	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	88	93	81	73	74	87
99	92	86	70	89	79	66	71	65	73	67	80	69	73	60	66

%EOF

(13)

```
ENTER LOG DATE (DD/MM/YR) : 17/08/79
ENTER SITE CODE (5 CHARS) : 1SHAF
ENTER USER CODE (4 CHARS) : 4635
 ENTER JOB CODE (3 CHARS) : 213
```

```
   DATA LOGGED :17  AUG 1979            DATA ANALYZED : 25 SEPT 1979
        LOGGER : DP-301/26                  SITE CODE : 1SHAF
 SERIAL NUMBER : 1219                        JOB CODE : 213
      BASELINE : 60 DB                      USER CODE : 4635
 DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
 TEST DURATION =    8: 0: 0              STANDBY TIME =   0: 0:20
```

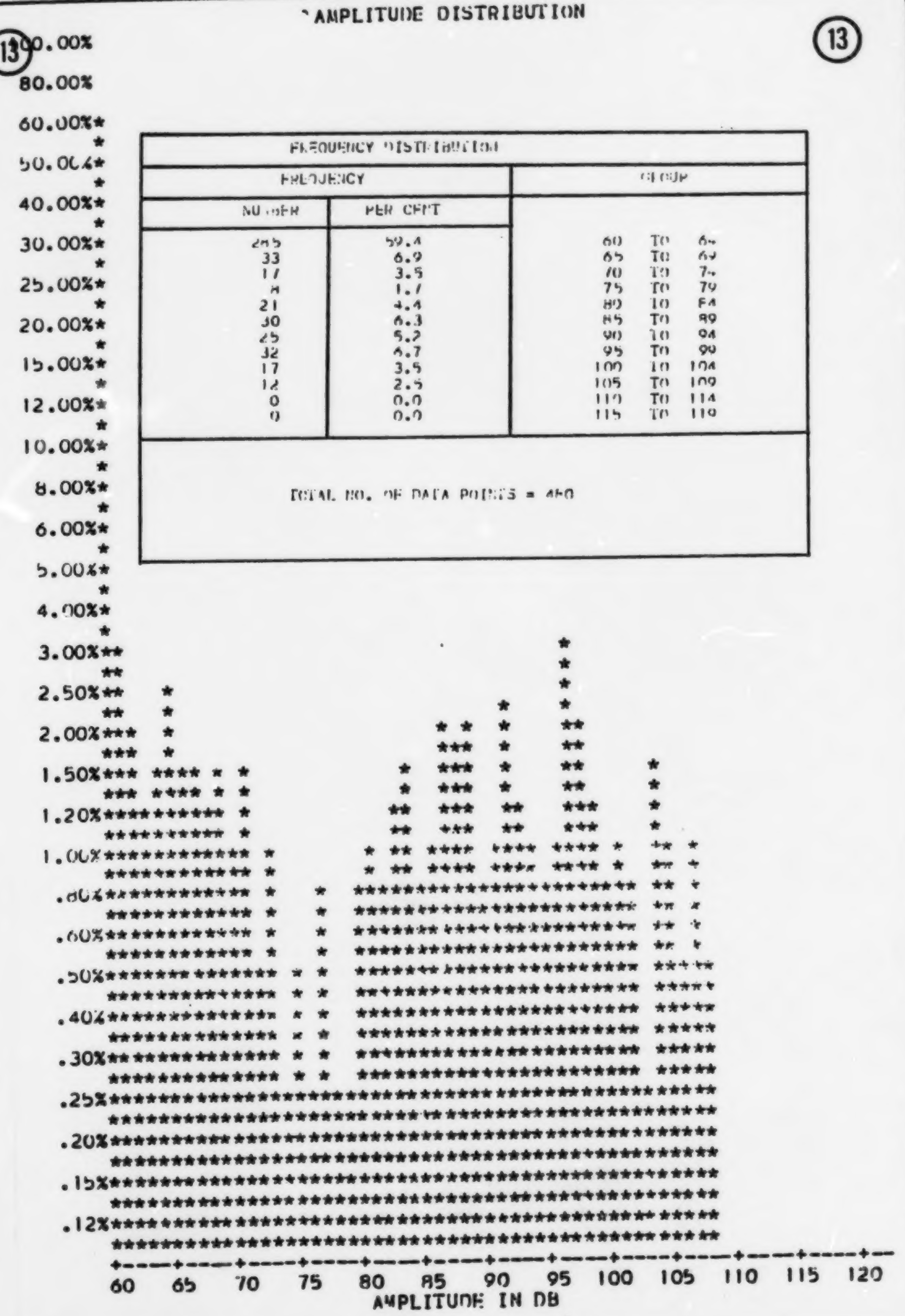
TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME HOUR	LEQ CURRENT	LEQ CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	71.3	71.3	.936	.94
2	92.9	88.2	16.581	19.52
3	87.4	88.6	11.522	31.04
4	89.4	88.8	11.483	42.52
5	96.8	91.3	31.924	74.44
6	62.0	90.0	.259	74.70
7	60.0	88.9	.196	74.90
8	77.9	88.1	2.349	77.25

```
MIN. COMP. =  60 DB                MAX. COMP. = 108 DB
ARITHMETIC MEAN =  70 DB
STD. DEVIATION =  15 DB
VARIANCE =225 DB
```

(13)

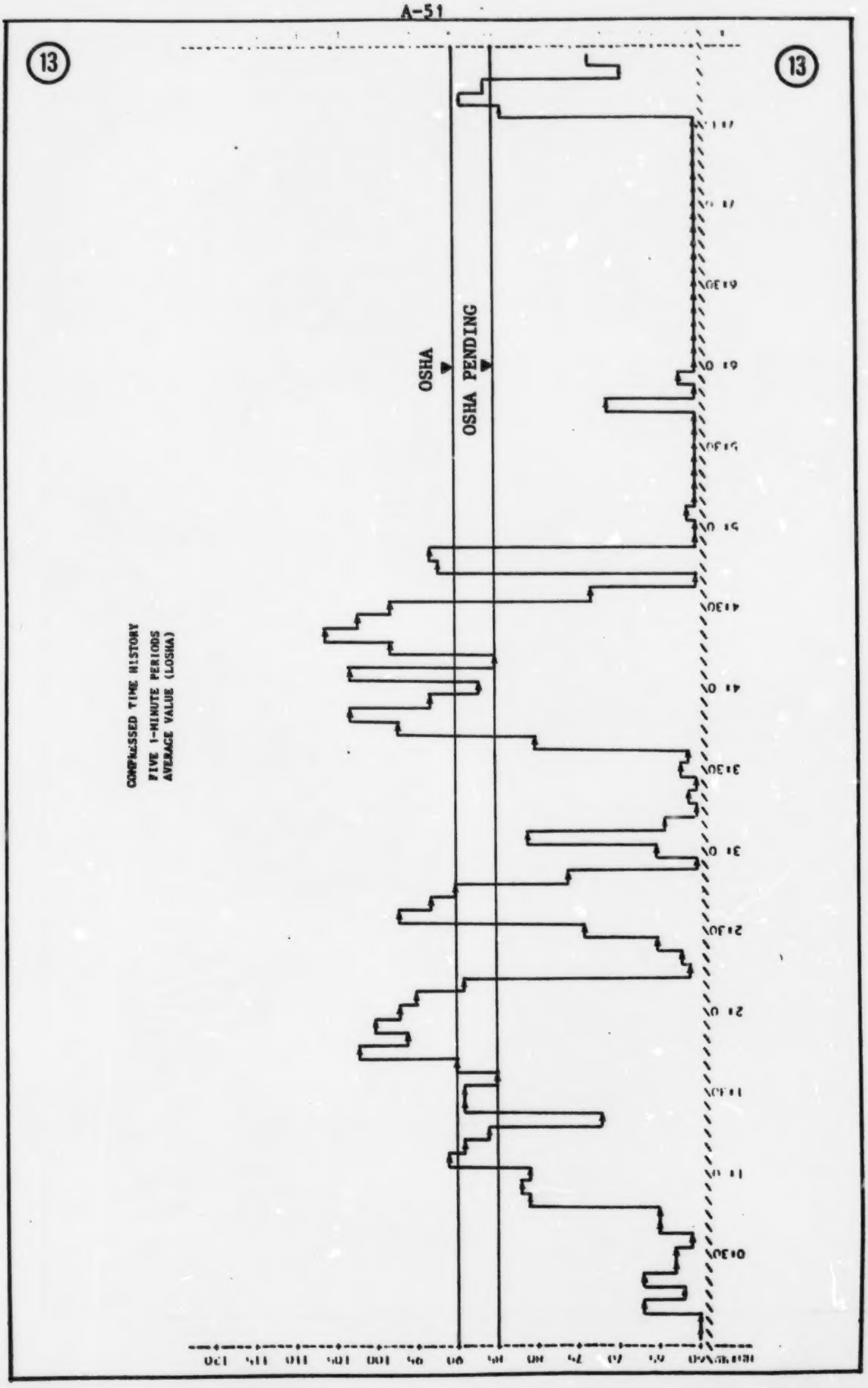


FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
285	59.4	60 TO 64
33	6.9	65 TO 69
17	3.5	70 TO 74
8	1.7	75 TO 79
21	4.4	80 TO 84
30	6.3	85 TO 89
25	5.2	90 TO 94
32	6.7	95 TO 99
17	3.5	100 TO 104
12	2.5	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(13)


13
13
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(14) (14)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1215 60 64 4 1
42 115200 480

60	60	60	60	60	60	62	68	73	67	64	63	62	73	68	74
65	68	71	94	74	76	76	75	73	64	70	74	67	73	72	69
65	61	61	68	70	66	66	69	69	70	63	61	65	67	66	66
86	86	84	81	63	73	74	64	83	89	91	90	91	98	101	95
88	94	96	101	103	99	101	92	86	90	[illegible]	84	82	82	82	82
82	69	[illegible]	[illegible]	87	[illegible]	[illegible]	[illegible]	89	[illegible]	[illegible]	[illegible]	[illegible]	84	[illegible]	[illegible]
90	84	93	89	83	82	83	95	90	86	86	83	[illegible]	84	86	86
86	85	85	85	82	84	87	87	86	84	83	83	83	83	85	71
75	82	86	87	93	91	76	67	69	76	72	85	72	82	88	84
84	85	[illegible]	85	86	87	85	86	91	[illegible]	[illegible]	90	[illegible]	[illegible]	[illegible]	84
84	84	85	86	86	97	93	85	83	83	92	95	84	86	83	87
86	87	86	[illegible]	97	87	88	86	87	86	86	86	[illegible]	89	97	87
83	86	86	86	86	85	87	90	85	86	85	85	[illegible]	85	86	85
87	87	86	88	92	89	96	93	90	91	86	86	85	85	85	87
89	97	93	84	87	85	86	86	85	85	85	85	85	85	84	85
85	88	96	90	84	63	69	62	63	60	60	60	60	60	60	62
60	63	82	66	61	60	80	64	70	74	60	71	78	60	63	60
78	93	102	102	103	93	104	100	95	89	85	84	84	98	98	84
83	92	95	96	90	87	97	91	89	92	92	101	97	94	91	94
97	90	95	90	88	87	86	86	85	95	89	91	97	96	85	92
85	85	84	85	82	82	88	96	85	84	81	91	100	93	85	87
98	84	84	84	85	85	86	90	101	104	94	94	95	95	95	92
90	86	98	89	89	99	96	96	88	90	91	98	88	94	101	100
93	90	96	91	96	99	85	83	84	86	100	90	93	102	102	102
95	100	92	99	97	100	99	97	100	92	87	88	99	102	98	98
104	100	97	92	93	87	92	84	85	88	94	102	102	101	95	97
96	99	94	107	84	95	99	97	93	97	108	96	103	99	100	89
91	84	84	92	85	84	88	96	87	100	101	102	91	90	91	95
96	92	89	90	85	96	102	100	94	102	105	87	83	83	83	83
88	101	91	97	94	92	88	82	83	84	97	93	86	99	95	78

*EOF

ENTER LOG DATE (DD/MM/YR) : 17/08/79
ENTER SITE CODE (5 CHARS) : ISHAF
ENTER USER CODE (4 CHARS) : 4685
ENTER JOB CODE (3 CHARS) : RBC

DATA LOGGED : 17 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1215
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 21 SEPT 1979
SITE CODE : ISHAF
JOB CODE : RBC
USER CODE : 4685
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = [illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LEQ		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIV.
1	76.9	76.9	2.027	2.03
2	90.4	86.4	13.149	15.17
3	86.6	86.5	7.41[illegible]	22.[illegible]
4	88.3	87.0	9.471	32.[illegible]
5	90.9	87.9	14.075	46.93
6	92.5	88.9	17.741	64.67
7	97.0	90.8	32.[illegible]	97.[illegible]
8	95.5	91.6	26.813	121.37

MIN. COMP. = 60 DB
ARITHMETIC MEAN = 95 DB
STD. DEVIATION = 11 DB
VARIANCE =121 DB

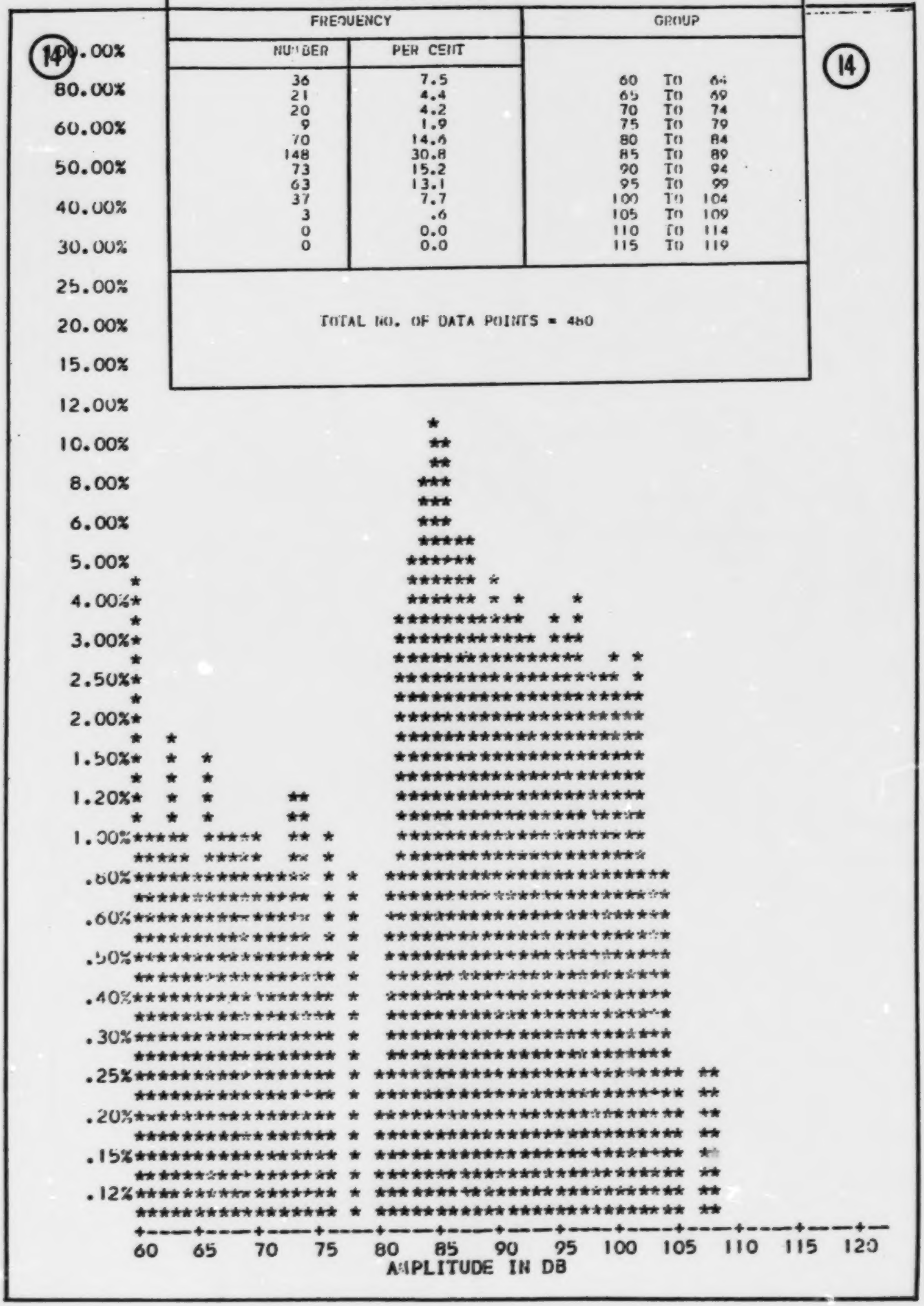
MAX. COMP. = 10[illegible] DB

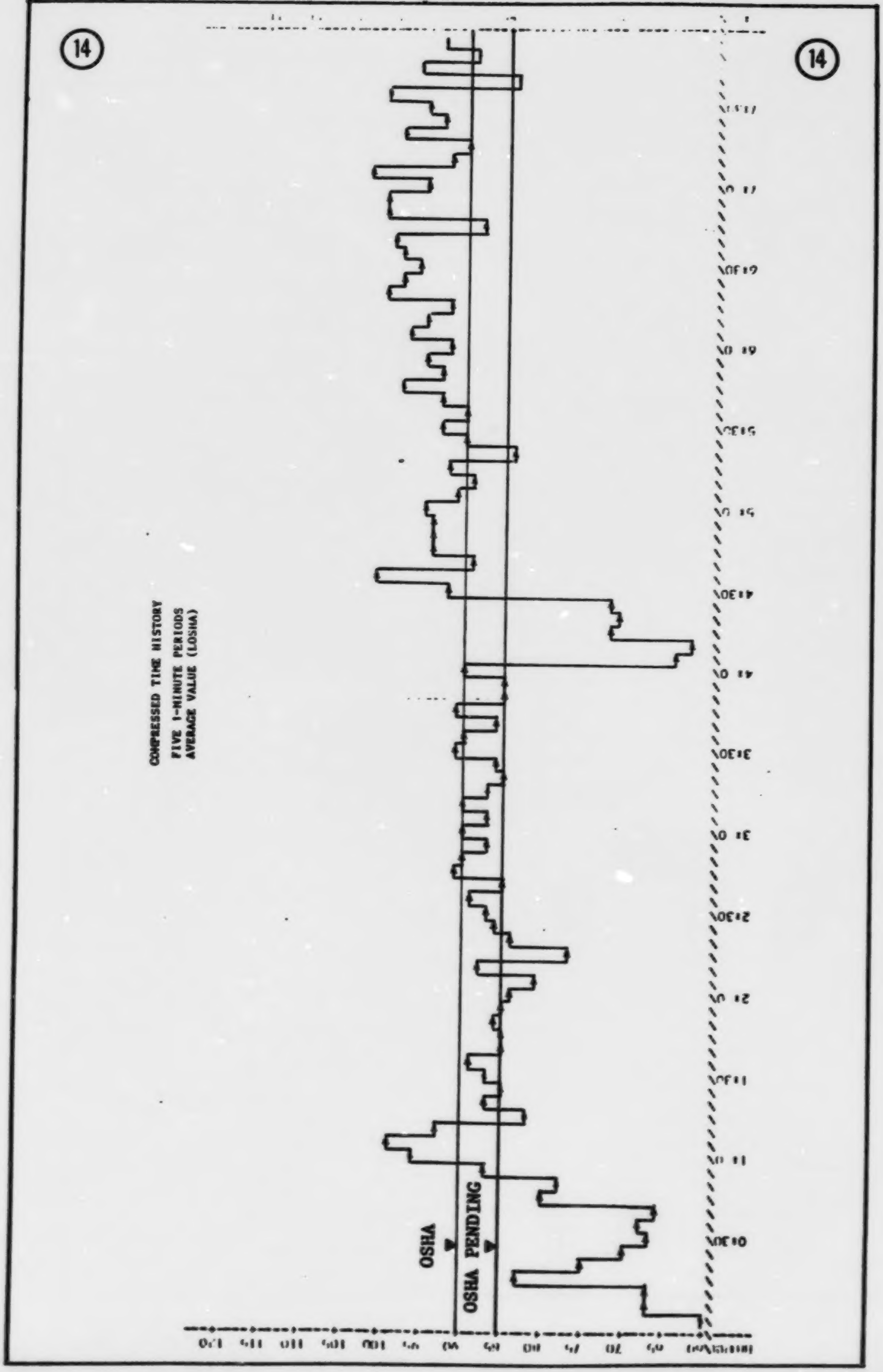
FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
36	7.5	60 TO 64
21	4.4	65 TO 69
20	4.2	70 TO 74
9	1.9	75 TO 79
70	14.6	80 TO 84
148	30.8	85 TO 89
73	15.2	90 TO 94
63	13.1	95 TO 99
37	7.7	100 TO 104
3	.6	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(14)





14
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:30
3:30
4:30
6:30
14

(15)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1221 60 04 4 1
26 115200 480

65	68	75	75	74	69	77	78	65	65	71	62	68	72	72	78
73	83	[illegible]	92	97	99	100	99	102	94	91	93	95	98	98	97
98	98	94	97	93	96	98	98	[illegible]	98	96	92	76	64	61	60
60	60	60	60	60	63	60	70	70	70	74	74	[illegible]	93	75	67
[illegible]	69	[illegible]	[illegible]	[illegible]	96	[illegible]	100	103	103	104	102	104	102	91	97
92	91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	112	91	91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	99
114	114	114	113	94	97	[illegible]	[illegible]	[illegible]	111	116	[illegible]	118	119	[illegible]	[illegible]
120	118	119	[illegible]	117	116	115	114	111	110	110	111	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	115	117	118	[illegible]	119	[illegible]	92	89	89	83	81	90
95	85	90	91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	103	[illegible]	[illegible]	[illegible]	[illegible]	87	90	89	90	[illegible]	85	85	85
64	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
87	87	86	86	87	87	87	86	104	90	89	89	[illegible]	[illegible]	[illegible]	[illegible]
89	90	90	90	89	89	90	91	90	90	90	90	90	90	90	90
90	90	93	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	101	104	104	[illegible]	[illegible]	104	111	106
117	96	94	92	92	93	93	66	60	70	73	69	61	60	60	60
64	60	60	60	61	63	60	60	61	60	61	62	62	60	60	60
60	66	62	60	61	60	60	63	73	73	74	77	65	61	64	66
60	[illegible]	71	69	60	65	60	60	60	60	60	60	63	60	60	60
64	60	93	97	91	78	73	63	62	[illegible]	[illegible]	61	[illegible]	[illegible]	[illegible]	[illegible]
68	81	97	87	95	96	85	69	62	60	63	60	74	84	89	89
83	77	61	73	109	108	107	103	105	106	108	110	111	113	104	106
98	95	92	90	88	87	88	95	87	86	91	86	86	85	80	91
88	89	91	89	88	88	92	94	96	63	64	62	60	60	62	61
60	60	62	60	60	60	60	60	62	70	70	68	[illegible]	66	82	88
95	100	102	98	80	96	98	95	93	87	95	98	97	101	97	90
98	99	98	101	98	101	101	98	76	70	65	95	63	60	64	60
71	74	60	62	64	61	60	60	62	61	67	77	90	95	92	92
95	95	90	83	97	99	101	98	101	103	105	104	105	103	103	97

[illegible]

ENTER LOG DATE (DD/MM/YR) : 19/07/79
ENTER SITE CODE (5 CHARS) : CC202

ENTER USER CODE (4 CHARS) : 4396
ENTER JOB CODE (3 CHARS) : 291

DATA LOGGED :19 JULY 1979
LOGGER : [illegible]-301/26
SERIAL NUMBER : 1221
BASELINE : [illegible]
DYNAMIC RANGE : [illegible]
SAMPLING RATE : [illegible]
TEST DURATION = [illegible]

DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC202
JOB CODE : 2[illegible]1
USER CODE : 43[illegible]6
THRESHOLD : [illegible]
TOTAL SAMPLES = 1152[illegible]
STANDBY [illegible] = [illegible]

[illegible] HISTORY ANALYSIS

[illegible] (C.[illegible].I.) CALCULATIONS
[illegible]
[illegible]
[illegible]
THRESHOLD (CUTOFF) LEVEL = [illegible]
NUMBER OF COMPUTATIONS = 480
[illegible] = 1 [illegible]

[illegible] HOUR	[illegible] CURRENT	[illegible] CUMULATIVE	[illegible] CURRENT	[illegible] CUMULATIVE
1	91.1	91.1	14.586	14.59
2	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	104.9	[illegible]	[illegible]
4	[illegible]	103.1	11.629	[illegible]
5	95.0	10[illegible].1	25.00[illegible]	334.0[illegible]
6	[illegible]	[illegible]	13.[illegible]	347.93
7	95.7	[illegible]	[illegible]	37[illegible].73
8	95.7	[illegible]	27.402	407.14

MIN. COMP. = 60 [illegible]
MAX. COMP. = 120 [illegible]
ARITHMETIC MEAN = [illegible]
STD. DEVIATION = [illegible]
VARIANCE =[illegible]

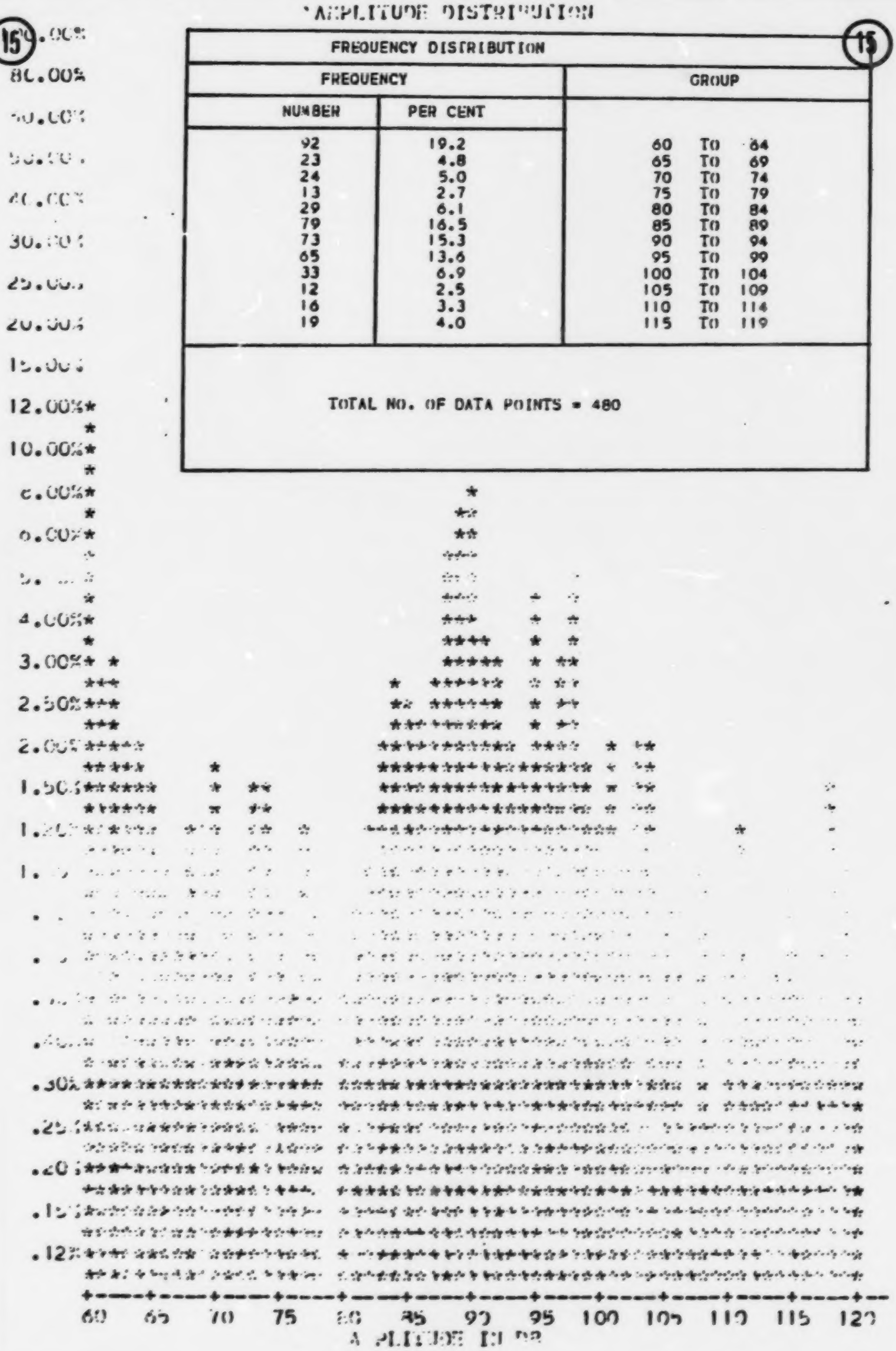
(15)

AMPLITUDE DISTRIBUTION

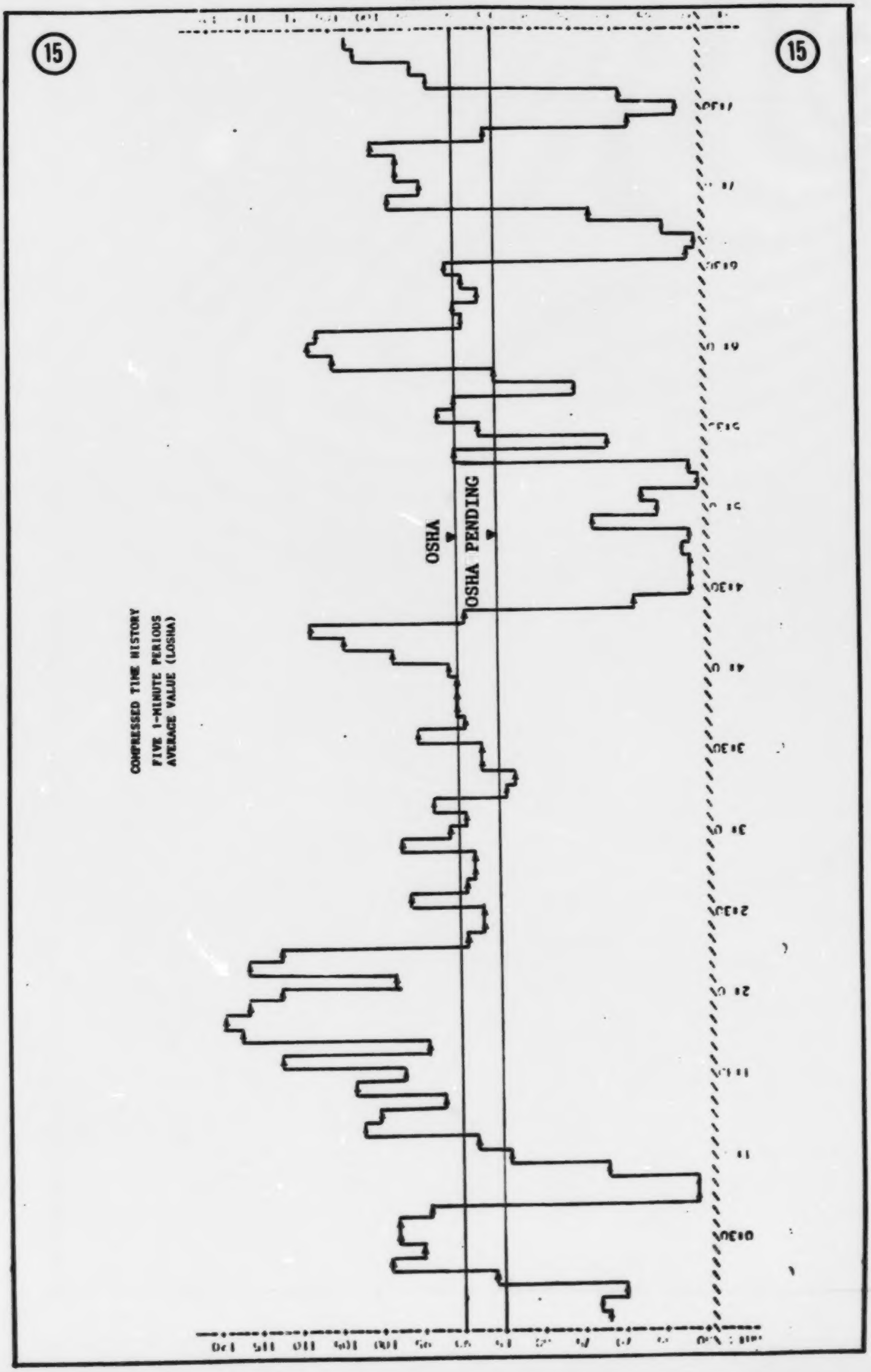
15

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
92	19.2	60 TO 64
23	4.8	65 TO 69
24	5.0	70 TO 74
13	2.7	75 TO 79
29	6.1	80 TO 84
79	16.5	85 TO 89
73	15.3	90 TO 94
65	13.6	95 TO 99
33	6.9	100 TO 104
12	2.5	105 TO 109
16	3.3	110 TO 114
19	4.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



AMPLITUDE IN DB


15
15
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(16) (16)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1218 60 64 4 1
75 115200 480

61	61	60	61	60	59	61	72	62	62	60	62	64	[illegible]	61	60
60	60	74	73	74	70	73	[illegible]	66	64	71	69	[illegible]	63	66	[illegible]
61	63	60	63	60	60	60	60	62	68	65	74	75	67	74	91
90	89	91	90	[illegible]	73	93	[illegible]	[illegible]	94	90	[illegible]	89	[illegible]	91	70
71	77	84	84	[illegible]	[illegible]	97	[illegible]	[illegible]	[illegible]	101	[illegible]	77	[illegible]	[illegible]	96
97	96	97	71	67	60	60	61	60	60	61	60	61	71	77	95
90	83	83	83	85	85	85	84	83	83	86	93	96	94	95	98
100	97	95	97	95	97	97	97	94	96	95	97	97	97	94	97
99	98	97	97	91	97	96	96	95	[illegible]	[illegible]	97	[illegible]	97	[illegible]	97
98	97	98	96	97	94	96	98	98	98	98	96	99	97	96	96
99	99	99	99	100	97	96	91	86	94	96	97	100	99	97	97
97	98	96	96	[illegible]	95	97	101	97	[illegible]	[illegible]	87	[illegible]	[illegible]	[illegible]	[illegible]
84	87	83	86	[illegible]	85	84	85	85	85	84	85	84	84	83	85
84	84	84	84	84	86	86	87	87	87	88	87	88	96	86	92
85	87	86	85	86	87	85	87	86	86	87	[illegible]	89	90	91	90
92	92	89	87	85	87	84	89	90	94	85	84	84	84	86	85
85	84	84	85	85	86	85	86	87	87	88	87	90	[illegible]	91	86
91	94	93	94	85	84	84	84	87	85	87	86	[illegible]	88	95	92
93	90	90	87	88	90	91	91	[illegible]	92	93	91	92	93	92	91
90	92	90	87	87	95	91	85	93	89	91	93	93	90	87	95
93	87	85	86	85	90	90	95	89	90	91	84	90	92	90	83
85	91	90	91	84	82	83	93	83	[illegible]	83	84	85	84	85	84
84	85	98	96	86	86	86	90	93	99	99	97	92	86	87	91
97	99	97	96	98	75	95	96	99	98	97	95	93	93	72	60
60	65	60	63	60	60	60	60	60	61	60	60	60	60	62	60
60	60	60	60	60	71	60	60	60	60	60	61	60	72	[illegible]	91
93	96	95	96	98	98	95	95	95	96	96	96	97	96	97	[illegible]
70	85	60	60	60	89	94	85	93	78	72	66	77	64	66	[illegible]
84	87	98	103	89	83	86	84	81	85	85	78	76	74	[illegible]	82
61	67	90	73	77	79	66	60	62	79	[illegible]	75	75	[illegible]	61	61

#EOF

ENTER LOG DATE (MM/DD/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : C0203
ENTER USER CODE (4 CHARS) : 4068
ENTER JOB CODE (3 CHARS) : 270

DATA LOGGED : 12 JULY 1979
LOGGER : [illegible]-301/26
SERIAL NUMBER : 121[illegible]
BASELINE : [illegible]
DYNAMIC RANGE : [illegible]
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 12 SEPT 1979
SITE CODE : [illegible]
JOB CODE : 27[illegible]
USER CODE : [illegible]
THRESHOLD : [illegible]
TOTAL SAMPLES = 1152[illegible]
STANDBY TIME = [illegible]

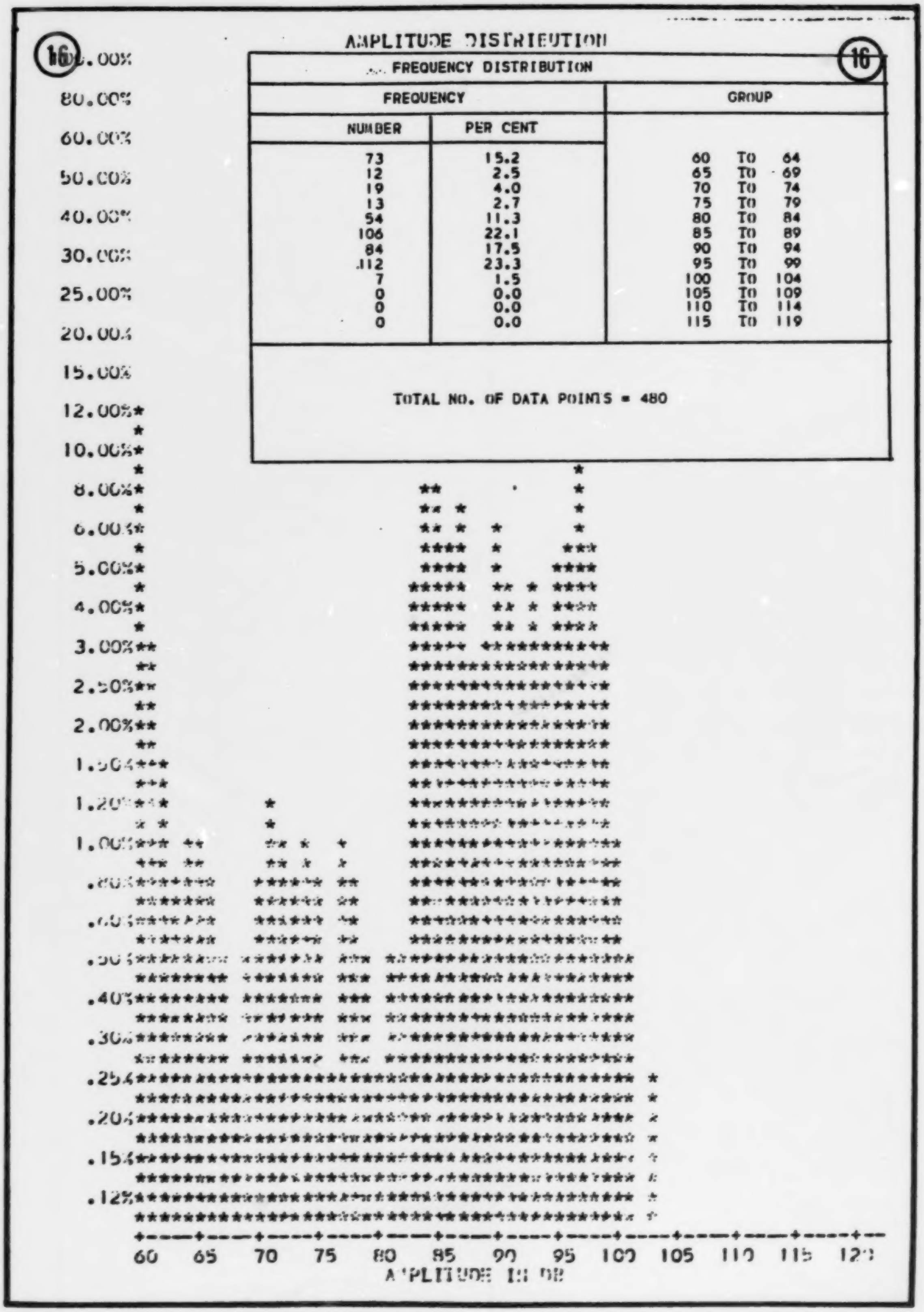
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 [illegible] / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = [illegible] DB
NUMBER OF COMPUTATIONS = 440
PERIOD = 1 HOURS

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	[illegible]1.2	[illegible]1.2	3.4[illegible]	[illegible]
2	92.5	[illegible]	17.671	21.[illegible]
3	97.0	92.7	33.[illegible]	[illegible]
4	[illegible]	91.[illegible]	10.127	[illegible]
5	[illegible]	91.3	10.537	75.15
6	[illegible]	91.1	11.760	[illegible]6.93
7	[illegible].1	[illegible]	12.5[illegible]	[illegible]
8	[illegible]	[illegible]	10.[illegible]	110.[illegible]

MIN. COMP. = [illegible]
MAX. COMP. = 104 [illegible]
ARITHMETIC MEAN = [illegible] DB
STD. DEVIATION = 12 [illegible]
[illegible]

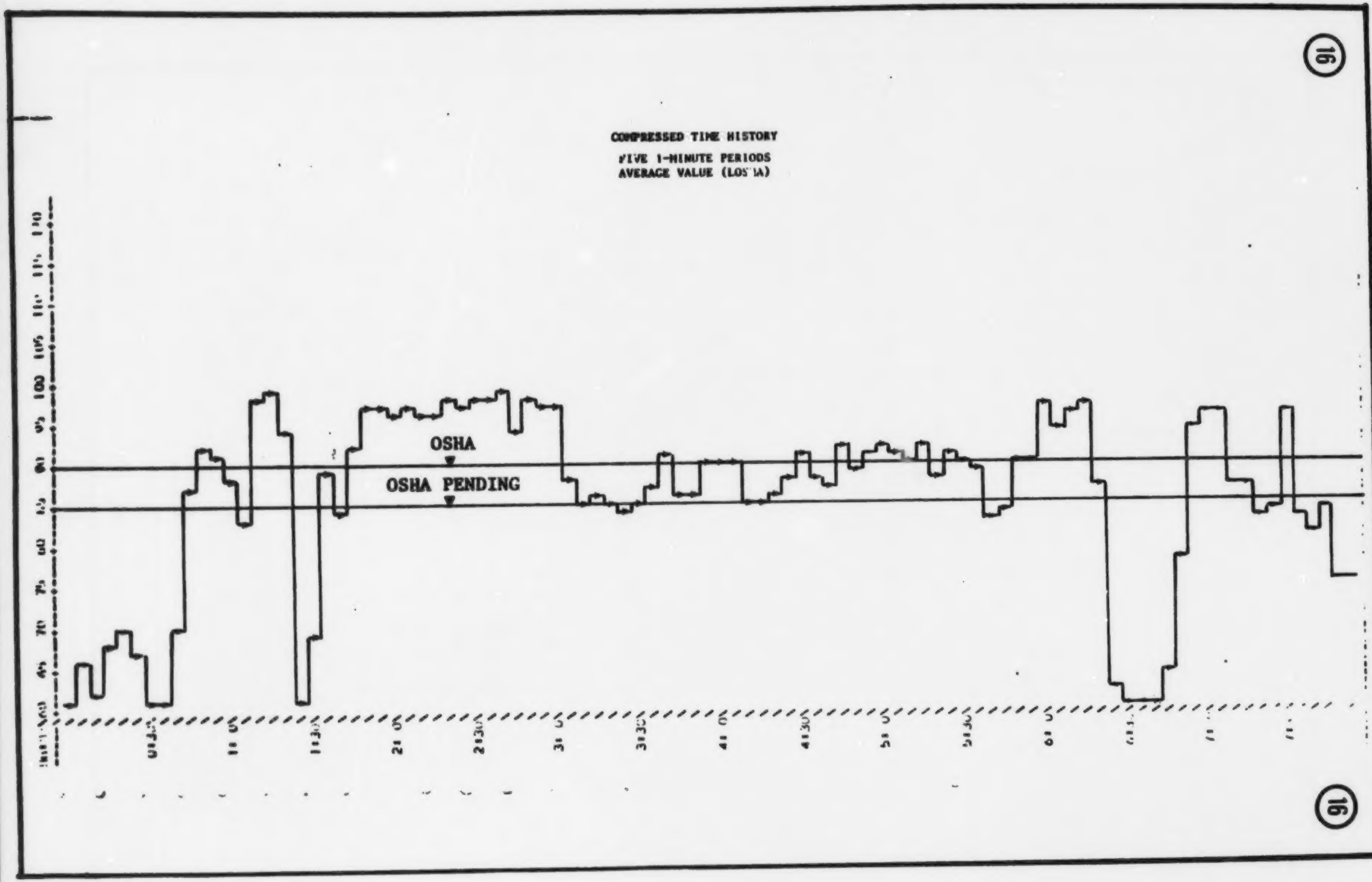
AMPLITUDE DISTRIBUTION



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
73	15.2	60 TO 64
12	2.5	65 TO 69
19	4.0	70 TO 74
13	2.7	75 TO 79
54	11.3	80 TO 84
106	22.1	85 TO 89
84	17.5	90 TO 94
112	23.3	95 TO 99
7	1.5	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


16
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOS'A)
OSHA
OSHA PENDING
16

(17)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1216 60 64 4 1

159 115200 480

67	62	60	60	60	60	62	60	61	63	61	60	62	77	60	60
63	61	64	62	62	60	64	60	60	60	60	60	60	65	67	75
79	71	90	92	95	94	92	92	93	93	92	93	100	103	101	102
101	104	103	99	94	94	63	61	60	60	60	60	60	60	60	60
[illegible]	73	91	91	91	92	96	[illegible]	93	94	90	88	[illegible]	84	[illegible]	[illegible]
84	81	90	95	95	93	89	[illegible]	91	91	94	94	94	94	95	99
95	96	99	94	101	91	85	85	83	83	83	84	84	85	84	[illegible]
84	83	83	85	85	85	85	83	83	85	86	84	84	83	84	84
[illegible]	84	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	84	[illegible]	85	[illegible]	[illegible]	84	[illegible]	[illegible]
84	83	83	85	84	83	83	83	85	84	85	85	85	83	82	83
83	84	84	85	84	83	85	87	97	99	96	97	95	93	86	80
63	64	60	76	83	86	85	75	69	72	85	66	79	75	80	73
63	74	72	70	65	83	63	84	83	84	84	84	84	82	83	82
81	82	82	82	85	91	94	97	99	95	95	97	96	91	88	93
95	95	95	93	95	94	94	96	97	91	96	98	97	101	100	90
74	74	63	84	85	83	83	65	83	88	95	83	69	62	93	94
75	74	70	77	76	70	67	60	60	71	76	76	78	79	77	74
64	65	60	60	62	65	61	60	62	61	61	60	65	65	62	66
67	62	64	77	76	60	60	63	93	81	78	88	74	66	82	76
70	67	67	76	89	73	66	90	78	58	89	91	67	73	90	90
73	94	93	64	68	71	90	86	79	81	80	81	81	80	79	84
75	76	77	75	70	76	81	79	84	79	75	69	77	80	81	82
80	80	79	73	80	77	73	76	65	79	88	79	89	90	90	91
89	92	90	90	107	84	60	60	60	68	60	60	72	69	60	63
80	90	62	83	62	89	69	95	98	98	96	97	95	89	94	99
96	94	96	96	92	91	94	63	80	88	85	81	62	66	67	66
64	60	73	68	70	63	64	64	65	63	72	63	71	70	79	76
66	70	72	67	79	73	69	71	63	95	102	94	67	60	60	60
60	60	60	60	60	60	66	60	60	60	60	60	60	64	61	68
89	94	93	94	95	95	95	97	81	60	60	60	60	61	62	63

STOP

ENTER LOG DATE (DT/MO/YR) : 16/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4116
ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED : 16 JULY 1979
LOGGER : [illegible]-301/26
SERIAL NUMBER : 1216
BASELINE : [illegible]
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 13 SEPT 1979
SITE CODE : CC210
JOB CODE : 281
USER CODE : 4116
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

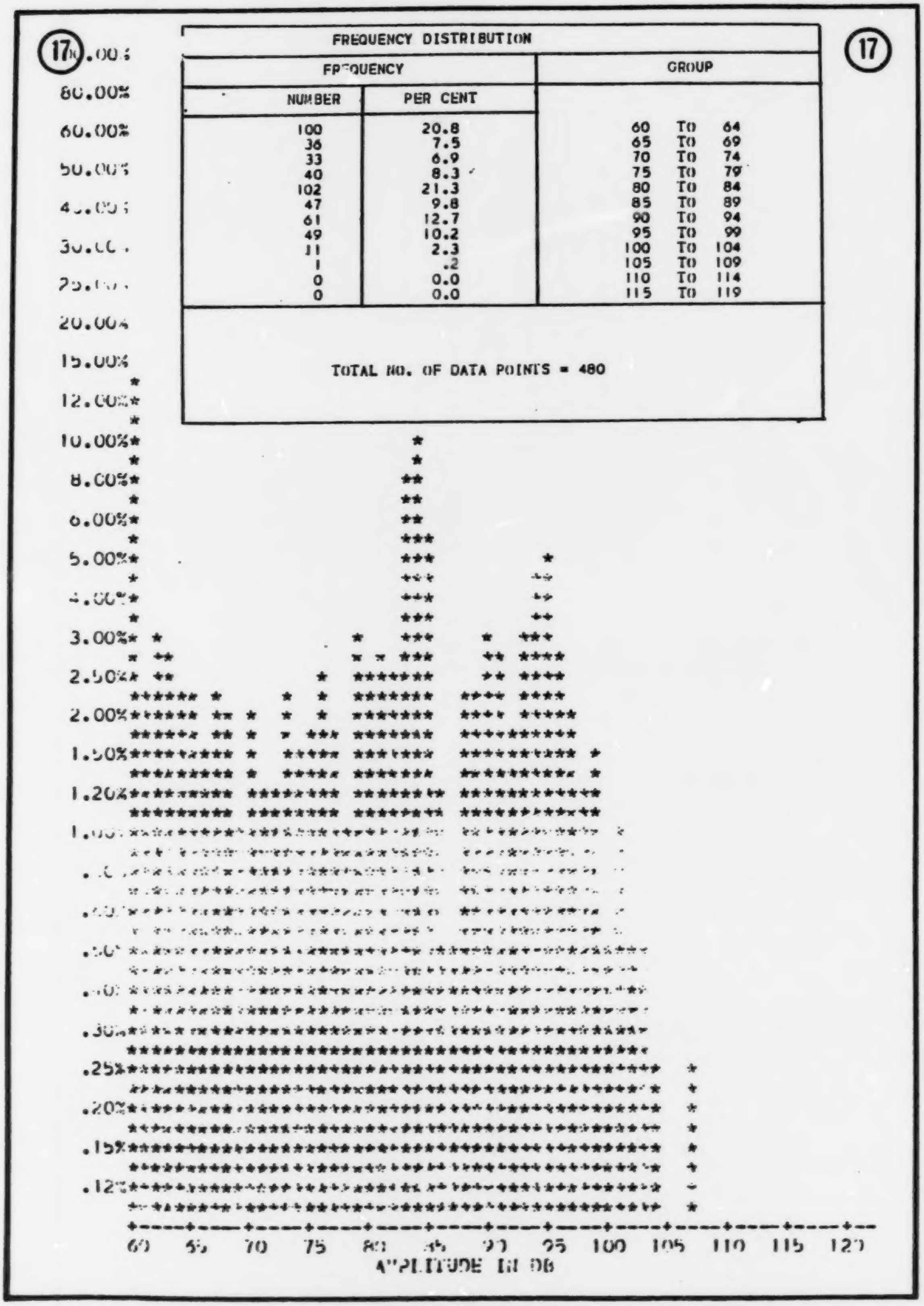
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
[illegible]
[illegible]
[illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOSS CURRENT	LOSS CUMULATIVE	[illegible] CURRENT	[illegible] CUMULATIVE
1	90.2	90.2	12.848	12.85
2	90.5	90.4	13.435	26.28
3	[illegible]	[illegible].3	7.657	34.94
4	90.7	89.7	13.765	47.70
5	80.3	88.5	3.274	50.98
6	82.3	87.8	4.291	55.27
7	90.1	88.2	12.147	[illegible]
8	[illegible]	[illegible]	5.379	74.39

MIN. COMP. = 60 DB
MAX. COMP. = 107 DB
ARITHMETIC MEAN = 79 DB
STD. DEVIATION = 13 DB
VARIANCE = [illegible]

(17)

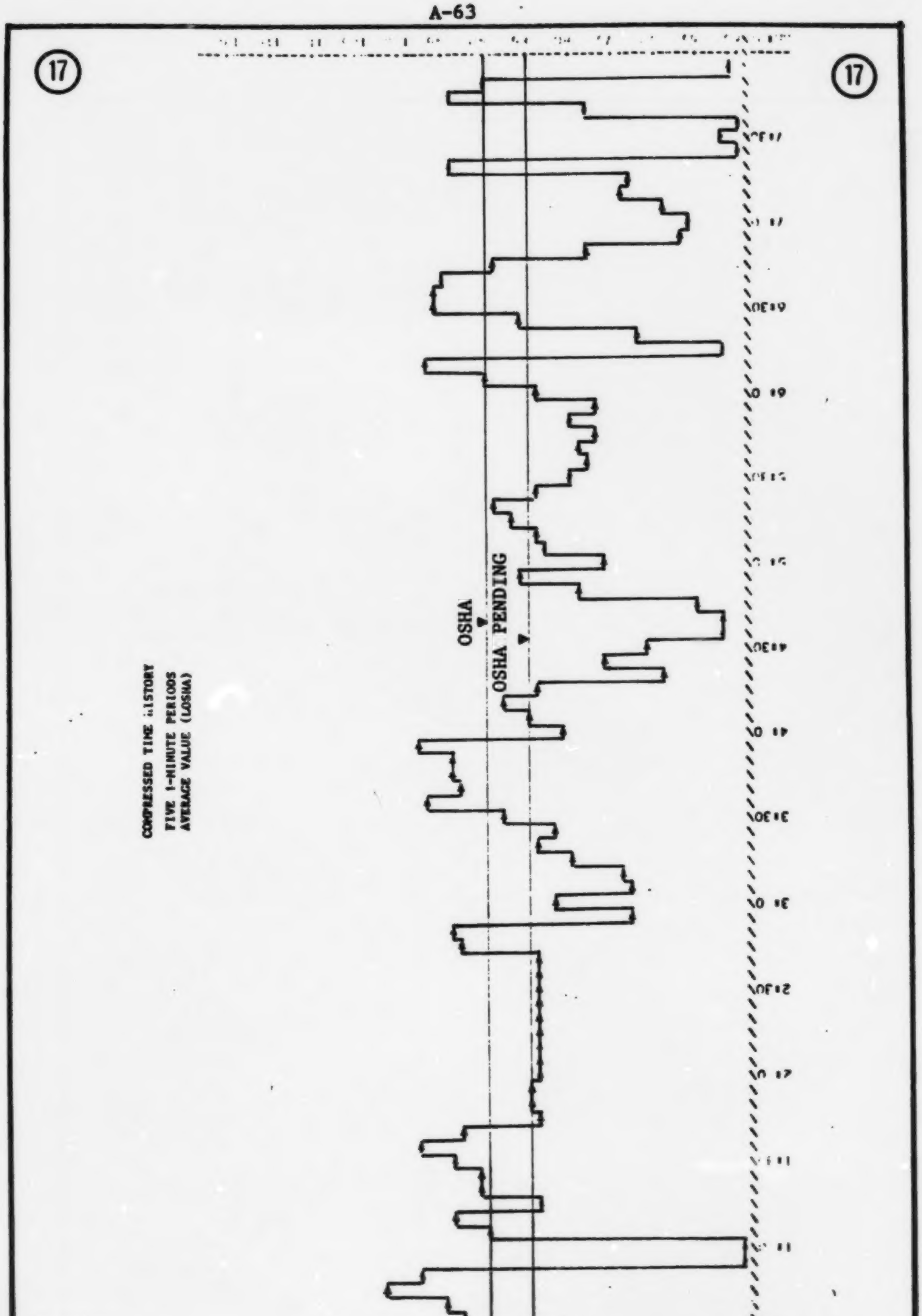


FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
100	20.8	60 TO 64
36	7.5	65 TO 69
33	6.9	70 TO 74
40	8.3	75 TO 79
102	21.3	80 TO 84
47	9.8	85 TO 89
61	12.7	90 TO 94
49	10.2	95 TO 99
11	2.3	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(17)


17
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
17

(18) (18)

[illegible] A [illegible] A [illegible]

1 26 80 1220 60 64 4 1
70 115?0 4.0

66	64	60	60	61	61	60	69	62	60	68	70	[illegible]	70	[illegible]	70
66	62	69	70	77	71	69	70	79	85	82	81	93	94	93	93
93	96	[illegible]	100	[illegible]	99	101	[illegible]	94	99	99	[illegible]	77	77	[illegible]	[illegible]
70	73	[illegible]	75	62	62	64	65	73	65	72	70	[illegible]	75	[illegible]	77
75	76	[illegible]	73	73	82	74	60	[illegible]	[illegible]	[illegible]	[illegible]	74	[illegible]	71	[illegible]
75	81	77	80	76	76	69	66	65	60	71	71	[illegible]	90	[illegible]	89
93	90	94	95	92	91	99	100	92	90	84	85	89	95	87	84
[illegible]	85	[illegible]	[illegible]	[illegible]	86	93	[illegible]	86	[illegible]	97	[illegible]	[illegible]	[illegible]	[illegible]	92
93	93	92	90	94	91	93	95	95	85	91	90	90	105	114	117
117	113	105	98	97	98	95	96	94	92	95	90	95	95	99	97
95	92	92	92	[illegible]	92	94	[illegible]	87	[illegible]	87	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	85	84	85	86	86	[illegible]	84	83	87	[illegible]	84	[illegible]	82	[illegible]	[illegible]
83	83	84	86	85	85	82	82	82	82	82	83	83	86	87	84
85	85	85	81	82	83	[illegible]	85	85	85	85	84	85	85	93	92
91	85	87	86	85	91	86	90	87	88	91	96	97	97	99	95
96	97	100	102	97	102	102	101	103	103	103	103	103	103	102	100
103	101	99	99	103	102	104	103	93	93	99	97	96	97	105	112
102	95	97	97	93	93	92	90	92	89	89	90	90	93	90	90
90	90	90	90	90	90	90	90	90	91	90	90	91	90	91	91
91	92	91	91	91	90	91	92	94	91	92	99	102	103	103	102
93	88	92	91	83	87	90	90	83	87	87	91	[illegible]	90	89	87
90	95	98	93	93	90	81	84	82	84	80	80	82	82	83	80
83	84	83	83	87	81	82	85	83	80	81	80	80	80	83	83
81	84	83	81	81	81	81	81	81	81	83	83	81	84	83	80
80	90	90	91	95	98	96	84	81	99	95	95	90	89	80	81
80	80	80	83	83	80	82	82	81	80	81	89	97	[illegible]	85	83
83	88	95	95	95	95	95	95	95	95	95	95	95	95	95	95
95	96	96	96	96	96	95	98	99	93	86	92	102	93	93	90
96	87	79	80	70	75	81	82	74	77	89	95	93	95	97	[illegible]
98	98	97	83	82	86	63	67	84	86	93	90	83	92	65	82

.ECF

ENTER LOG DATE (DD/MM/YY) : 14/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4061
ENTER JOB CODE (3 CHARS) : 270

(

DATA LOGGED : 13 JULY 1979
LOGGER : [illegible]-301/25
SERIAL NUMBER : 1220
BASELINE : [illegible]
DYNAMIC RANGE : [illegible]
SAMPLING RATE : [illegible]
TEST DURATION = [illegible]

DATA ANALYZED : 12 SEP. 1979
SITE CODE : CC210
JOB CODE : 27[illegible]
USER CODE : [illegible]
THRESHOLD : [illegible]
TOTAL SAMPLES = 11520
STANDBY TIME = [illegible]

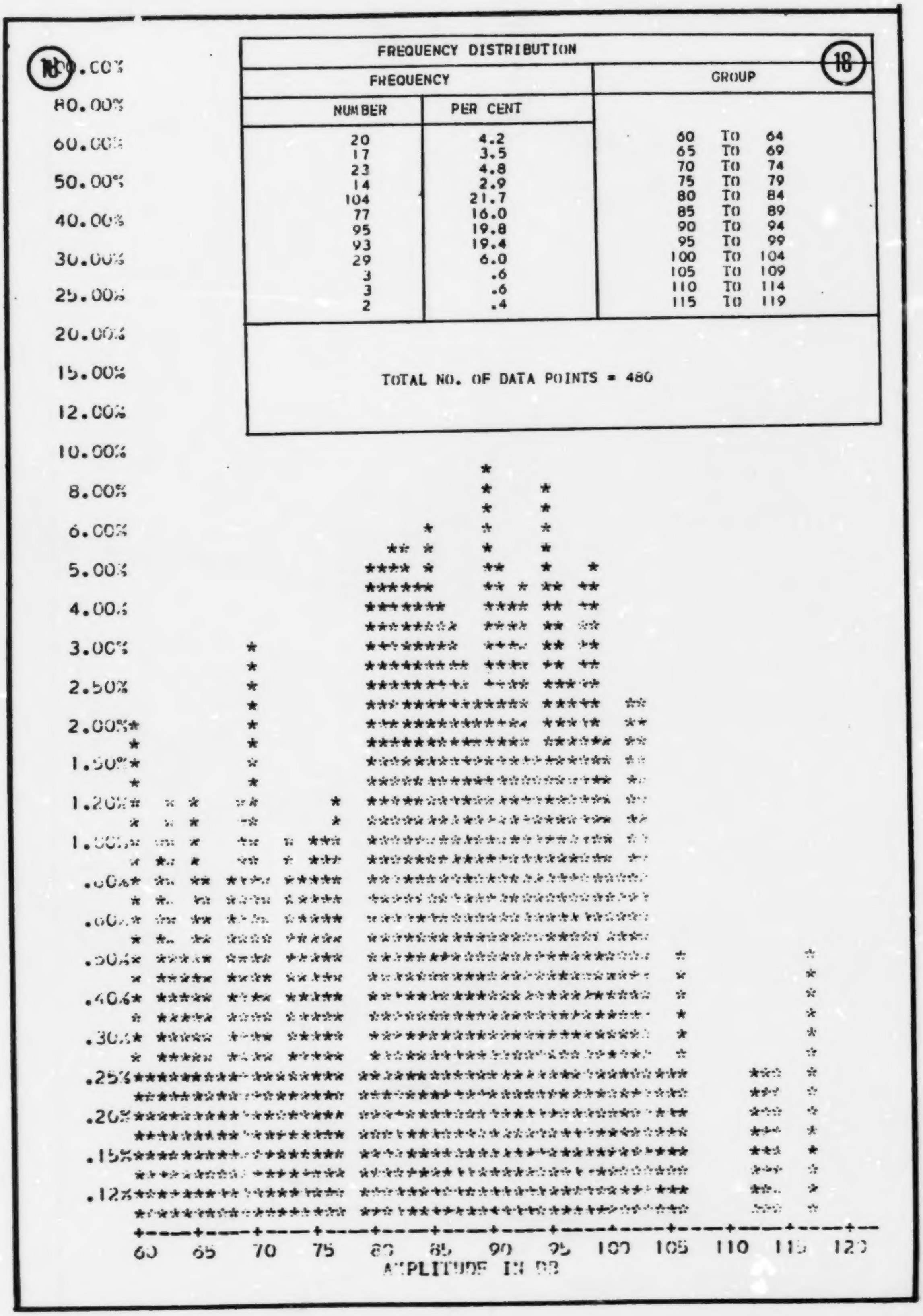
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LEQ(A)		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	[illegible]	[illegible]	10.51?	10.51
2	[illegible]	87.4	7.?03	17.52
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	93.0	9.170	7?.57
5	[illegible]	94.6	42.327	117.?0
6	[illegible]	[illegible]	16.43?	13?.??
7	[illegible]	93.5	?.633	142.27
8	[illegible]	93.5	19.??4	16?.?0

MIN. COMP. = 60 DB
ARITHMETIC MEAN = [illegible]
STD. DEVIATION = [illegible]
[illegible]

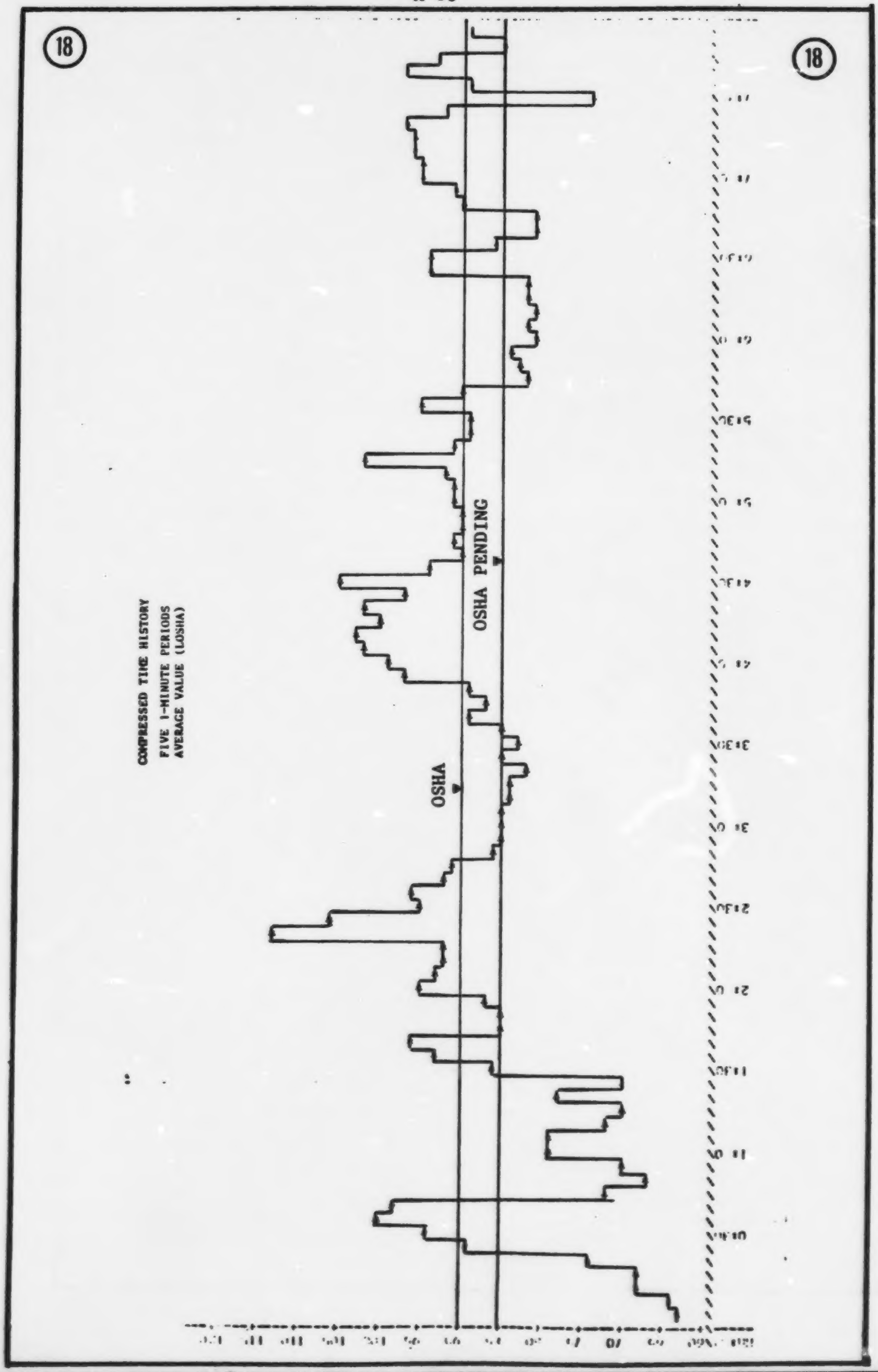
MAX. COMP. = 117 [illegible]



FREQUENCY DISTRIBUTION (18)

FREQUENCY		GROUP
NUMBER	PER CENT	
20	4.2	60 TO 64
17	3.5	65 TO 69
23	4.8	70 TO 74
14	2.9	75 TO 79
104	21.7	80 TO 84
77	16.0	85 TO 89
95	19.8	90 TO 94
93	19.4	95 TO 99
29	6.0	100 TO 104
3	.6	105 TO 109
3	.6	110 TO 114
2	.4	115 TO 119

TOTAL NO. OF DATA POINTS = 480


18
18
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(19) (19)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1224 60 64 4 1

93 115200 480

73	61	60	60	60	65	63	60	61	60	60	60	62	65	72	83
76	74	89	90	93	95	94	93	103	102	101	101	99	97	100	96
99	95	68	68	63	60	60	60	60	60	60	60	64	60	60	60
69	91	93	94	90	92	90	90	92	91	90	89	90	98	96	91
86	83	83	86	86	86	84	83	82	82	82	82	84	91	82	82
92	[illegible]	[illegible]	[illegible]	[illegible]	82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
97	98	101	97	97	96	83	72	73	79	63	61	60	73	77	76
73	79	61	79	85	87	94	96	93	80	76	87	[illegible]	91	94	94
97	98	89	90	94	97	101	96	102	97	98	88	93	94	95	101
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
87	87	87	87	87	89	96	104	105	103	103	105	104	101	105	111
104	100	97	104	105	105	105	106	105	104	103	103	103	103	104	103
103	103	[illegible]	102	101	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93	[illegible]	[illegible]	[illegible]	[illegible]
102	103	103	103	103	103	104	104	103	103	104	104	105	104	104	105
104	104	103	102	102	102	103	103	103	103	103	104	103	103	104	104
103	101	102	104	103	103	101	100	101	77	76	84	[illegible]	60	60	60
60	60	60	60	60	60	70	72	62	60	60	60	63	67	65	63
60	60	60	60	73	61	60	60	60	67	91	93	101	104	108	105
90	103	99	92	86	94	96	86	86	87	88	87	88	90	91	93
94	86	85	93	88	87	77	73	73	72	78	89	79	80	83	78
81	80	76	82	82	83	83	82	82	81	82	83	86	83	82	83
82	81	83	82	82	82	82	80	81	81	82	82	82	83	84	83
82	82	82	82	83	83	82	83	83	83	82	84	86	86	87	84
82	82	82	83	81	82	83	82	82	83	106	100	93	83	83	84
86	87	81	91	90	78	75	77	72	73	76	84	93	89	89	90
96	98	97	99	97	99	100	100	100	96	98	96	93	97	97	96
97	91	60	76	85	89	91	93	95	95	94	95	93	90	95	92
100	97	98	94	92	91	91	62	69	66	60	60	60	60	70	61
60	60	75	90	99	93	92	90	97	98	104	106	102	87	84	83
86	82	81	81	82	82	83	81	82	87	88	72	79	82	82	88

EOF

ENTER LOG DATE (DD/MM/YR) : 17/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4116
ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED :17 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1224
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8H [illegible]

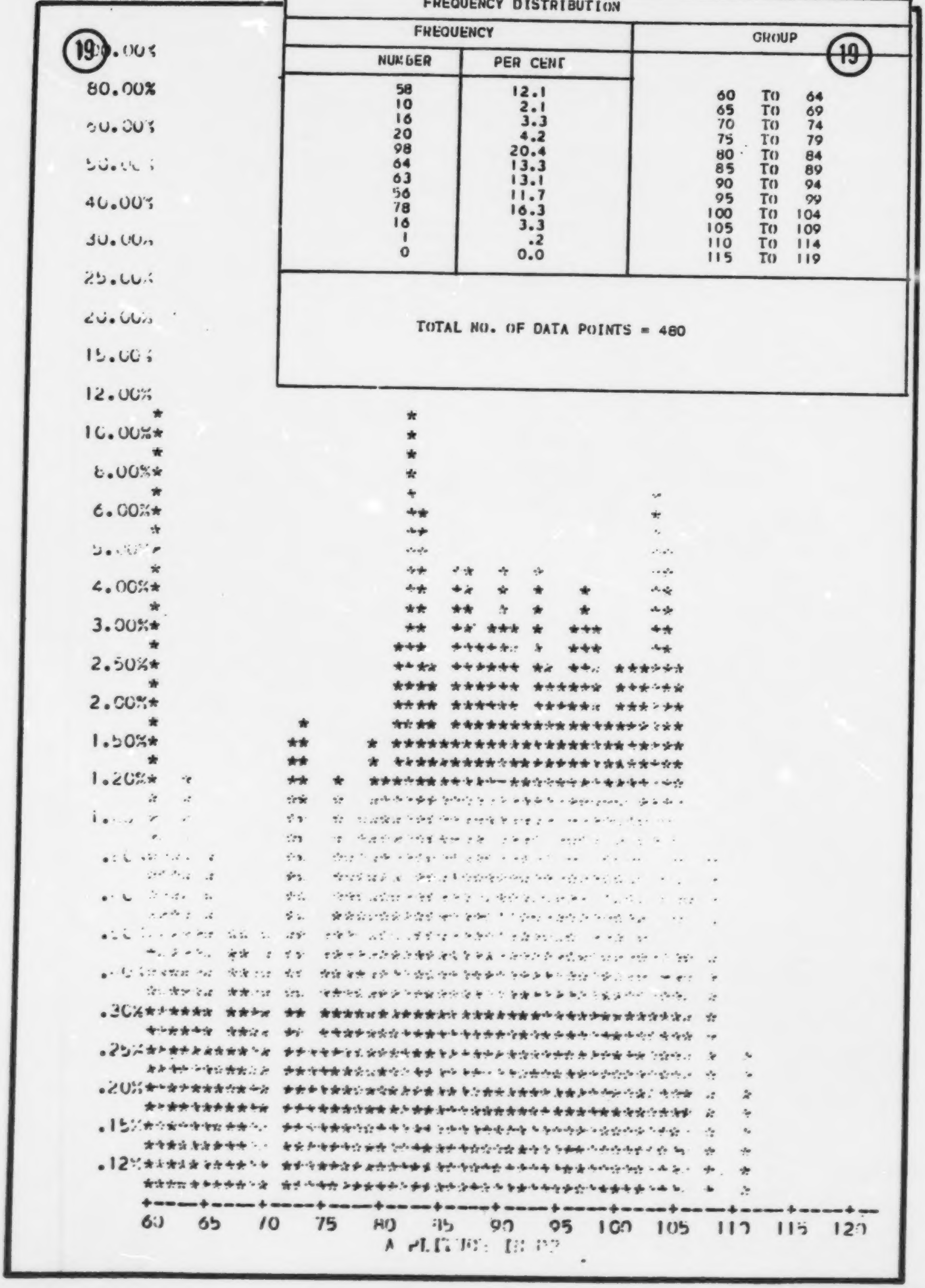
DATA ANALYZED : 13 SEPT 1979
SITE CODE : CC210
JOB CODE : 281
USER CODE : 4116
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = [illegible]
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOGMA CURRENT	LOGMA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	89.9	89.9	12.394	12.39
2	88.9	89.5	10.801	23.19
3	97.6	93.3	[illegible]	[illegible]
4	102.7	97.0	[illegible]	131.[illegible]
5	94.2	96.5	22.377	154.22
6	84.1	95.5	5.503	159.72
7	92.3	95.1	17.1[illegible]	176.90
8	91.7	94.7	15.[illegible]	192.76

MIN. COMP. = 60 DB
MAX. COMP. = 111 DB
ARITHMETIC MEAN = 86 DB
STD. DEVIATION = 13 [illegible]
VARIANCE =167 DB

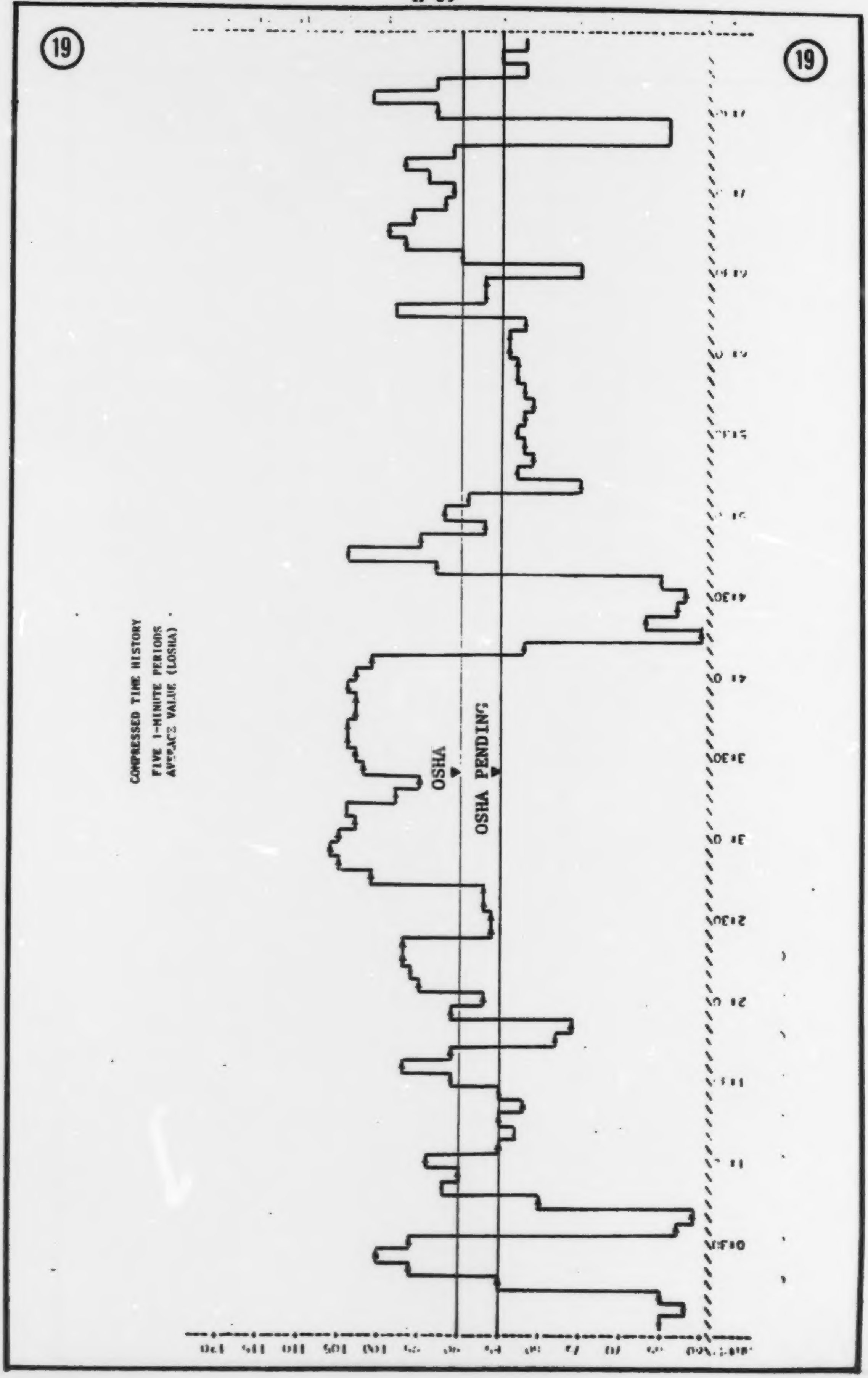


FREQUENCY DISTRIBUTION

19

FREQUENCY		GROUP
NUMBER	PER CENT	
58	12.1	60 TO 64
10	2.1	65 TO 69
16	3.3	70 TO 74
20	4.2	75 TO 79
98	20.4	80 TO 84
64	13.3	85 TO 89
63	13.1	90 TO 94
56	11.7	95 TO 99
78	16.3	100 TO 104
16	3.3	105 TO 109
1	.2	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


19
19
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(20) (20)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1213 60 64 4 1
170 115200 480

75	60	60	60	60	60	60	60	60	45	76	76	66	79	93	90
93	93	93	93	96	100	98	97	95	95	97	87	60	60	60	60
70	93	89	60	61	62	60	60	60	73	82	64	73	75	79	81
62	60	60	60	73	77	67	60	65	60	71	94	73	71	73	70
60	63	60	62	81	60	60	60	76	77	71	80	60	92	87	85
[illegible]	[illegible]	[illegible]	71	70	67	71	[illegible]	62	61	[illegible]	[illegible]	[illegible]	61	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64	73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
91	[illegible]	[illegible]	[illegible]	93	94	93	95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
64	[illegible]	70	65	63	63	64	70	79	[illegible]	72	76	73	74	[illegible]	[illegible]
[illegible]	97	[illegible]	[illegible]	83	86	90	[illegible]	97	90	80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	70	[illegible]	[illegible]	91	[illegible]	[illegible]	[illegible]	[illegible]	92	[illegible]	[illegible]	[illegible]	[illegible]
64	[illegible]	95	90	93	93	83	84	[illegible]	92	94	81	70	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	91	97	91	[illegible]	71	[illegible]	[illegible]	[illegible]	96	96	96	[illegible]	[illegible]	[illegible]
[illegible]	77	93	[illegible]	60	61	[illegible]	66	[illegible]	97	[illegible]	103	96	[illegible]	[illegible]	[illegible]
80	85	84	80	82	83	83	85	96	91	[illegible]	86	82	83	83	83
82	82	83	83	83	84	95	96	96	96	95	92	86	82	83	83
91	[illegible]	93	96	61	60	60	60	[illegible]	[illegible]	62	60	[illegible]	60	[illegible]	[illegible]
60	60	60	60	60	64	60	60	60	60	63	60	60	60	60	60
60	63	63	64	97	94	72	85	92	73	70	77	[illegible]	[illegible]	81	84
81	81	[illegible]	88	83	85	89	84	73	75	74	74	61	89	95	84
95	[illegible]	[illegible]	[illegible]	111	116	100	[illegible]	[illegible]	97	[illegible]	100	[illegible]	[illegible]	[illegible]	[illegible]
99	99	99	112	109	103	95	94	109	99	70	72	74	60	82	61
60	60	60	82	68	79	71	79	80	73	66	74	69	76	75	64
70	69	70	85	81	60	60	60	84	96	98	96	98	96	87	60
90	109	97	81	81	95	93	88	74	100	97	89	84	94	96	95
91	95	97	93	91	76	73	83	81	82	80	82	60	60	63	89
97	72	69	63	72	90	76	60	60	60	70	94	97	83	63	60
60	91	92	88	60	72	62	82	97	92	67	90	80	94	89	65
72	75	77	70	69	64	61	60	61	60	70	63	73	77	82	75
93	103	95	87	63	72	91	97	89	90	87	95	101	103	97	93

%EOF

ENTER LOG DATE (DD/MM/YR) : 17/07/79
ENTER SITE CODE (5 CHARS) : CC213

ENTER USER CODE (4 CHARS) : 4523

ENTER JOB CODE (3 CHARS) : 241

DATA LOGGED :17 JULY 1979
LOGGER : [illegible]
SERIAL NUMBER : 1213
[illegible]
[illegible]
SAMPLING RATE : 4/SEC
[illegible]

DATA ANALYZED : 13 SEPT 1979
SITE CODE : CC213
JOB CODE : 241
USER CODE : 4523
[illegible]
TOTAL SAMPLES = 115200
[illegible]

TIME HISTORY ANALYSIS

[illegible]
[illegible]
[illegible]
[illegible]
THRESHOLD (CLIPPING) LEVEL = [illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 HOURS

TIME HOUR	[illegible] CURRENT	CUMULATIVE	[illegible] CURRENT	CUMULATIVE
1	85.7	85.7	6.863	6.86
2	[illegible]	[illegible]	4.348	11.21
3	[illegible]	[illegible]	8.561	[illegible]
4	[illegible]	[illegible]	12.309	32.1[illegible]
5	[illegible]	[illegible]	6.416	38.60
6	97.8	[illegible]	36.900	75.59
7	[illegible]	[illegible]	13.[illegible]29	89.41
8	[illegible]	[illegible]	10.747	100.16

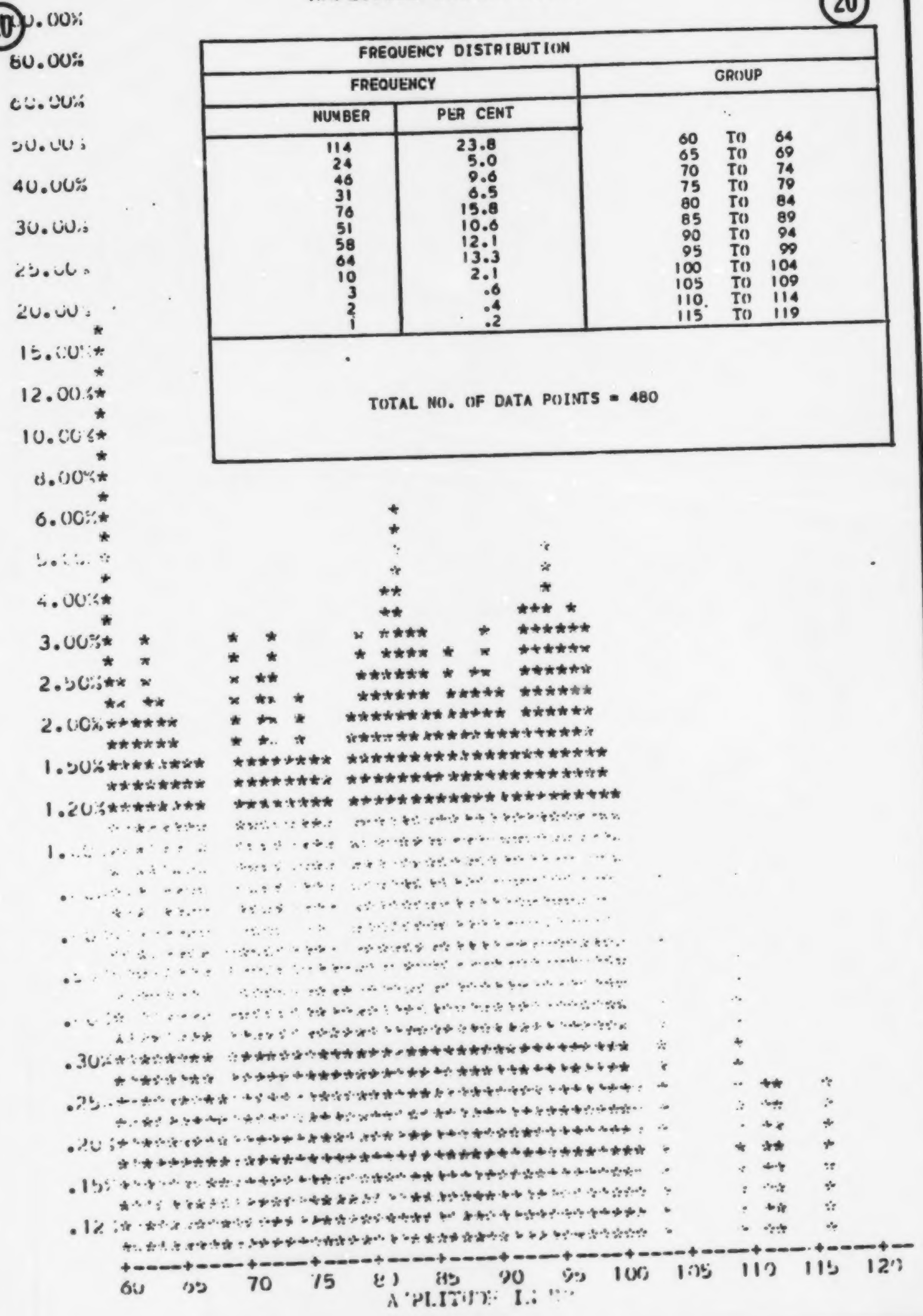
MIN. COMP. = 60 DB
MAX. COMP. = 116 DB
ARITHMETIC MEAN = 76 DB
STD. DEVIATION = 14 [illegible]
VARIANCE =196 DB

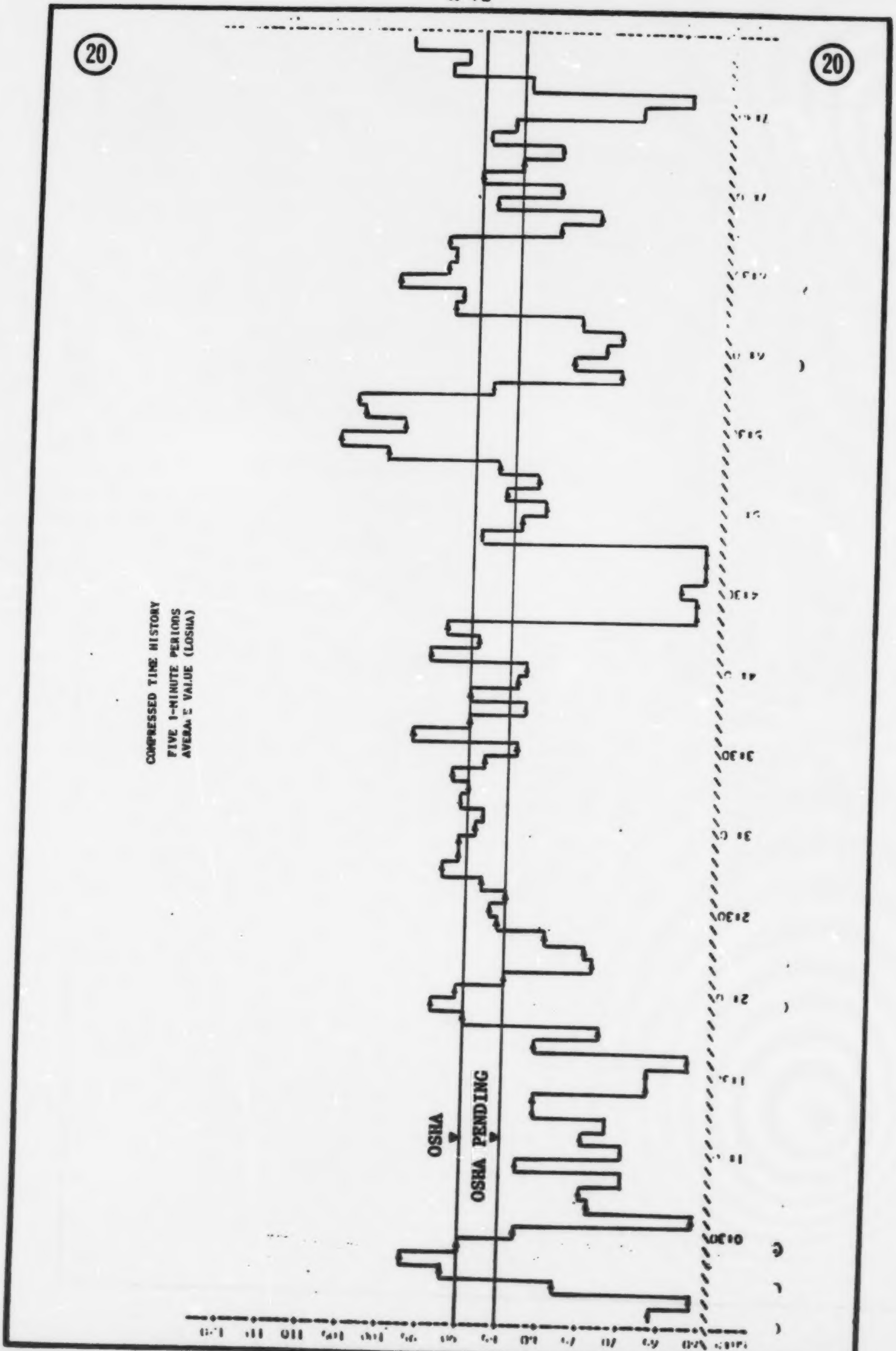
AMPLITUDE DISTRIBUTION

20

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
114	23.8	60 TO 64
24	5.0	65 TO 69
46	9.6	70 TO 74
31	6.5	75 TO 79
76	15.8	80 TO 84
51	10.6	85 TO 89
58	12.1	90 TO 94
64	13.3	95 TO 99
10	2.1	100 TO 104
3	.6	105 TO 109
2	.4	110 TO 114
1	.2	115 TO 119

TOTAL NO. OF DATA POINTS = 480




20
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
OSHA
OSHA PENDING
20

(21) (21)

PLAC [illegible]
1 [illegible] 121 [illegible] 1
28 115200 [illegible]

63	67	60	63	61	60	60	60	62	60	61	64	72	60	60	60
60	60	60	60	60	60	60	60	61	60	60	61	61	50	60	62
66	73	60	75	[illegible]	91	91	92	91	91	91	91	91	91	99	99
98	96	97	101	97	79	62	60	60	60	60	62	60	60	60	66
63	60	60	60	60	60	60	60	60	60	60	60	60	60	60	67
66	60	71	77	73	64	85	86	85	85	85	84	75	69	65	72
64	61	64	62	60	63	76	66	61	60	60	60	60	60	62	60
60	60	90	95	60	60	60	60	62	60	67	69	94	96	92	81
79	78	70	67	69	76	76	96	76	65	60	60	60	60	61	61
66	60	66	70	94	97	94	94	94	80	60	61	70	50	60	67
93	94	96	96	67	71	72	75	72	66	75	89	93	93	89	82
60	60	66	68	64	70	64	64	73	60	62	60	60	60	60	69
60	60	60	60	60	60	83	85	81	65	91	94	90	74	70	63
70	64	81	60	77	74	60	70	79	61	60	60	96	96	94	91
92	92	93	93	89	78	61	60	84	65	76	66	68	62	92	94
96	82	60	80	95	78	65	60	83	95	95	94	95	95	95	94
89	94	96	38	80	73	60	60	60	70	74	93	96	94	96	97
91	84	75	60	60	60	60	75	95	95	98	92	91	93	100	91
93	87	87	87	81	95	66	60	68	60	63	60	60	60	60	60
60	50	60	60	60	60	68	60	60	60	60	69	74	60	67	60
64	64	93	97	95	84	60	86	91	60	90	100	101	101	101	99
96	101	100	99	97	98	98	92	92	90	85	60	60	62	65	69
94	92	92	93	92	90	79	69	72	70	66	80	74	67	71	78
89	95	91	90	97	96	98	97	101	99	100	100	95	96	95	95
89	93	96	94	93	91	95	93	95	93	95	90	77	93	95	95
90	80	80	60	77	95	93	96	93	91	91	94	87	93	94	[illegible]
60	92	97	95	70	78	66	65	69	60	72	92	97	100	72	87
88	94	93	89	89	73	63	88	92	99	93	90	99	94	95	90
66	65	65	62	94	95	64	84	61	62	67	60	69	67	80	95
96	91	90	96	85	90	86	96	95	81	61	63	60	60	60	6[illegible]

*EOF

ENTER LOG DATE (DD/MM/YR) : 16/07/79
ENTER SITE CODE (5 CHARS) : 00210
ENTER USER CODE (4 CHARS) : 4523
ENTER JOB CODE (3 CHARS) : 241

DATA LOGGED :16 JULY 1979 — DATA ANALYZED : 12 SEPT 1979
LOCATION : [illegible]-301/26 — SITE CODE : [illegible]
[illegible] : [illegible] — JOB CODE : 241
[illegible] : [illegible] — USER CODE : 4523
[illegible] : [illegible] — THRESHOLD : [illegible]
[illegible] : [illegible] — TOTAL SAMPLES = 115200
[illegible] = [illegible] — STANDBY [illegible] = [illegible] 7

[illegible] HISTORY ANALYSIS

[illegible] (L[illegible]) CALCULATION
[illegible]
[illegible]
[illegible]
[illegible] (CRITERION) LEVEL = [illegible]
NUMBER OF COMPUTATIONS = [illegible]
[illegible]

[illegible]	LOG A CURRENT	CUMULATIVE	[illegible] CURRENT	CUMULATIVE
1	[illegible]	[illegible]	7.357	7.36
2	[illegible]	[illegible]	1.57	[illegible]
3	[illegible]	[illegible]	7.23[illegible]	16.17
4	[illegible]	[illegible]	[illegible]	21.[illegible]
5	[illegible]	[illegible]	1[illegible].[illegible]77	3[illegible]
6	[illegible]	[illegible]	13.[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	11.[illegible]	[illegible]

[illegible] = [illegible]
[illegible]
[illegible]
[illegible]

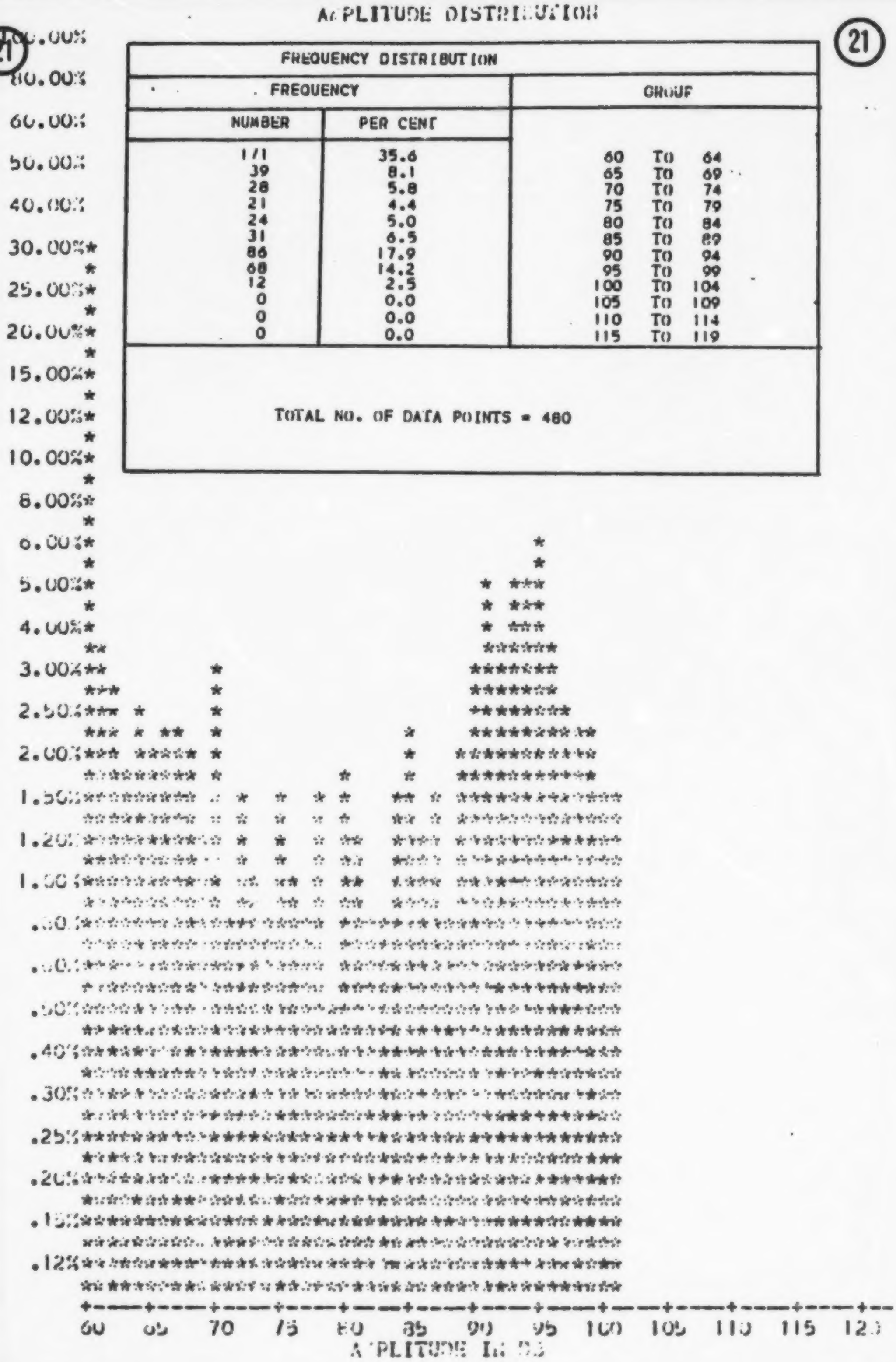
(21)

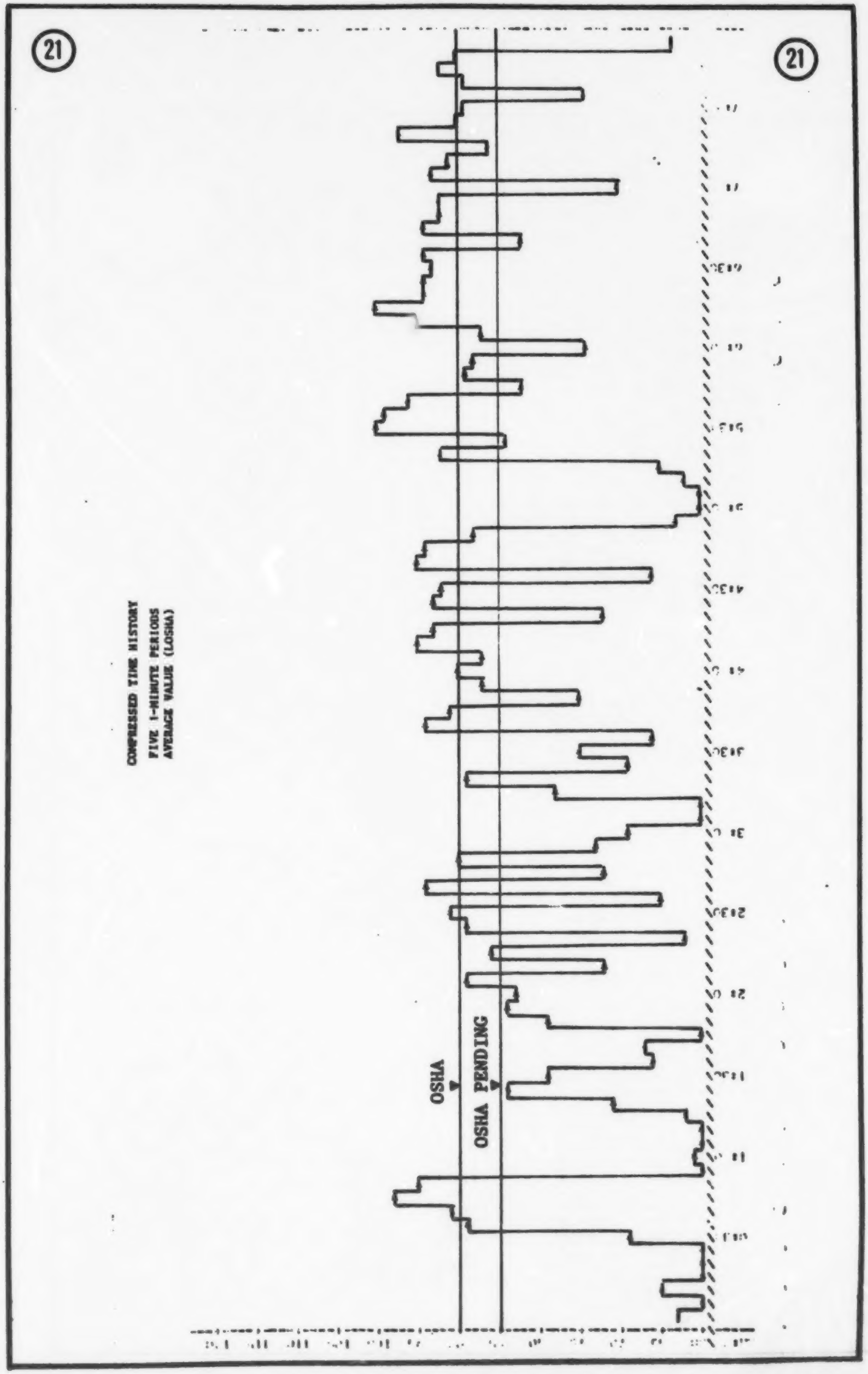
AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION

FREQUENCY NUMBER	FREQUENCY PER CENT	GROUP
171	35.6	60 TO 64
39	8.1	65 TO 69
28	5.8	70 TO 74
21	4.4	75 TO 79
24	5.0	80 TO 84
31	6.5	85 TO 89
86	17.9	90 TO 94
68	14.2	95 TO 99
12	2.5	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




21
21
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(22) (22)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1218 60 64 4 1
369 115200 480

66	69	60	60	66	71	69	68	61	60	60	69	65	71	63	60
67	62	60	60	60	60	63	65	61	64	63	61	66	60	62	63
67	60	64	65	60	60	60	64	62	60	67	88	93	91	93	97
96	96	83	92	92	99	96	76	69	60	62	63	60	60	60	60
60	60	60	62	60	71	75	72	63	61	60	60	60	60	66	60
63	64	60	60	60	66	64	62	72	78	66	66	[illegible]	98	87	[illegible]
93	91	95	96	97	95	99	96	83	94	98	79	86	91	88	74
75	69	94	91	94	98	89	87	83	91	95	96	88	91	89	90
94	89	90	92	87	87	94	83	88	94	94	88	87	95	90	94
94	93	93	97	93	92	103	106	98	87	97	95	100	97	100	93
91	96	102	99	97	94	94	98	101	99	97	97	98	102	101	107
97	101	95	99	101	100	103	97	97	98	88	99	94	100	95	97
93	93	96	96	101	99	102	101	100	103	92	77	66	60	62	76
68	70	74	75	63	62	65	61	61	60	60	80	62	71	73	67
62	84	91	73	92	96	97	92	96	96	100	94	95	97	99	98
89	84	62	95	96	96	95	97	100	98	95	96	74	72	63	67
67	60	68	65	61	61	64	60	60	60	63	60	60	61	67	63
62	61	60	67	60	60	61	62	61	60	64	61	60	60	60	66
61	63	62	66	71	60	61	62	61	65	67	61	63	60	68	66
61	64	60	64	68	66	64	60	60	60	60	60	63	60	60	61
60	60	60	60	60	60	60	60	60	60	65	60	60	60	60	60
60	60	60	65	61	64	68	60	60	60	61	66	62	78	71	60
60	60	60	60	60	60	60	65	71	60	60	60	60	60	68	60
60	60	62	60	65	64	60	60	65	65	60	60	60	60	60	62
60	60	74	68	86	75	76	77	62	60	61	84	75	60	60	61
60	60	61	75	67	60	60	60	60	64	67	60	60	60	60	60
69	73	66	64	67	60	60	80	75	70	65	80	74	63	64	79
77	81	82	83	64	71	67	67	78	82	63	73	73	68	86	80
69	67	76	69	60	79	62	79	79	60	64	87	74	82	75	77
73	68	66	61	71	80	69	77	81	60	65	69	73	77	68	68

XEOF

ENTER LOG DATE (DD/MM/YR) : 15/08/79.
ENTER SITE CODE (5 CHARS) : ISH23

ENTER USER CODE (4 CHARS) : 7919
ENTER JOB CODE (3 CHARS) : CDO

DATA LOGGED : 15 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1218
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : ISH23
JOB CODE : CDO
USER CODE : 7919
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 1:32

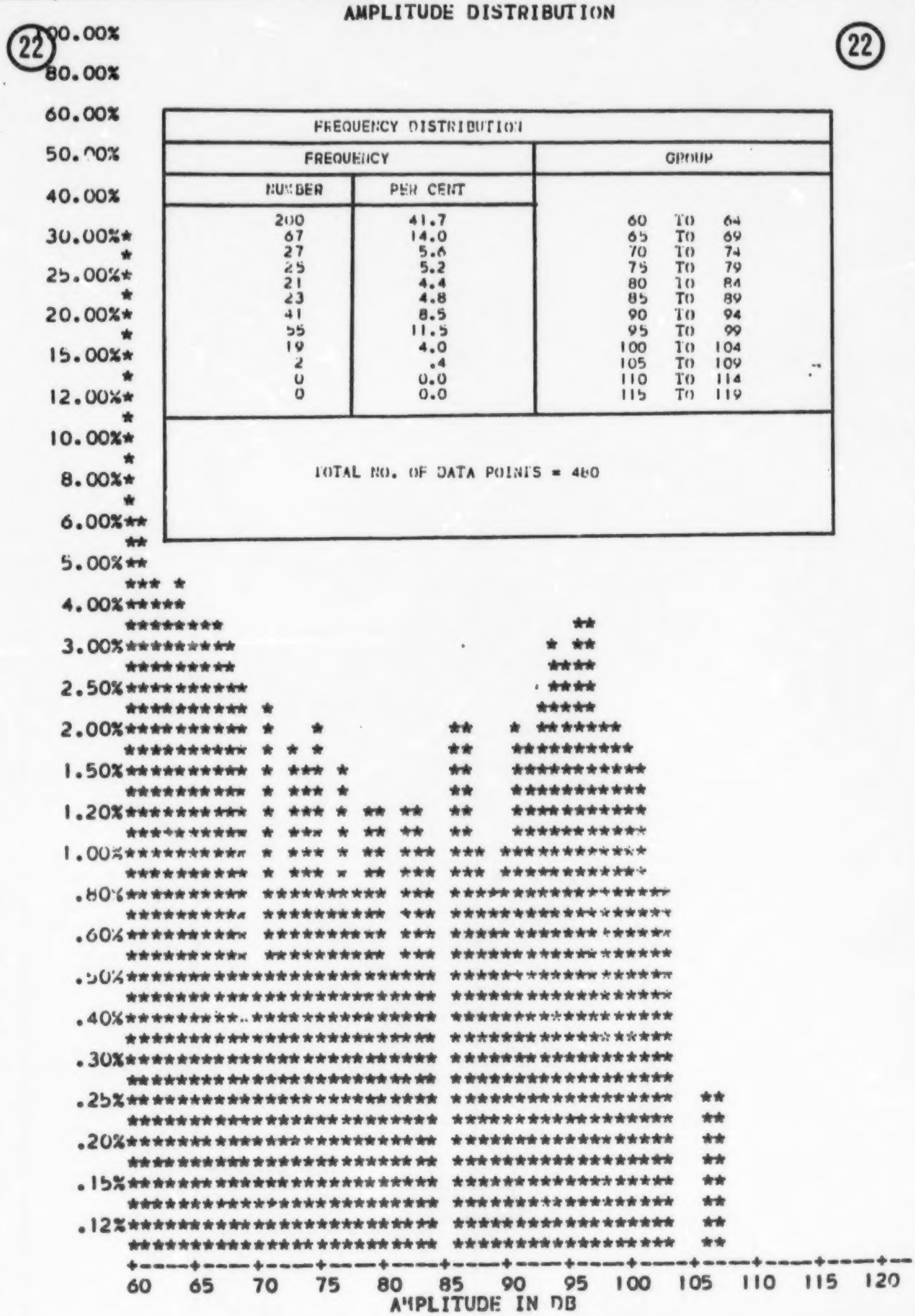
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% LOSS = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	82.9	82.9	4.674	4.67
2	86.7	85.1	7.921	12.59
3	95.4	90.9	30.165	42.76
4	93.9	91.8	21.541	64.30
5	83.8	90.8	5.312	69.62
6	63.2	89.5	.304	69.92
7	68.5	88.4	.631	70.55
8	75.5	87.7	1.669	72.22

MIN. COMP. = 60 DB
MAX. COMP. = 107 DB
ARITHMETIC MEAN = 73 DB
STD. DEVIATION = 15 DB
VARIANCE =225 DB

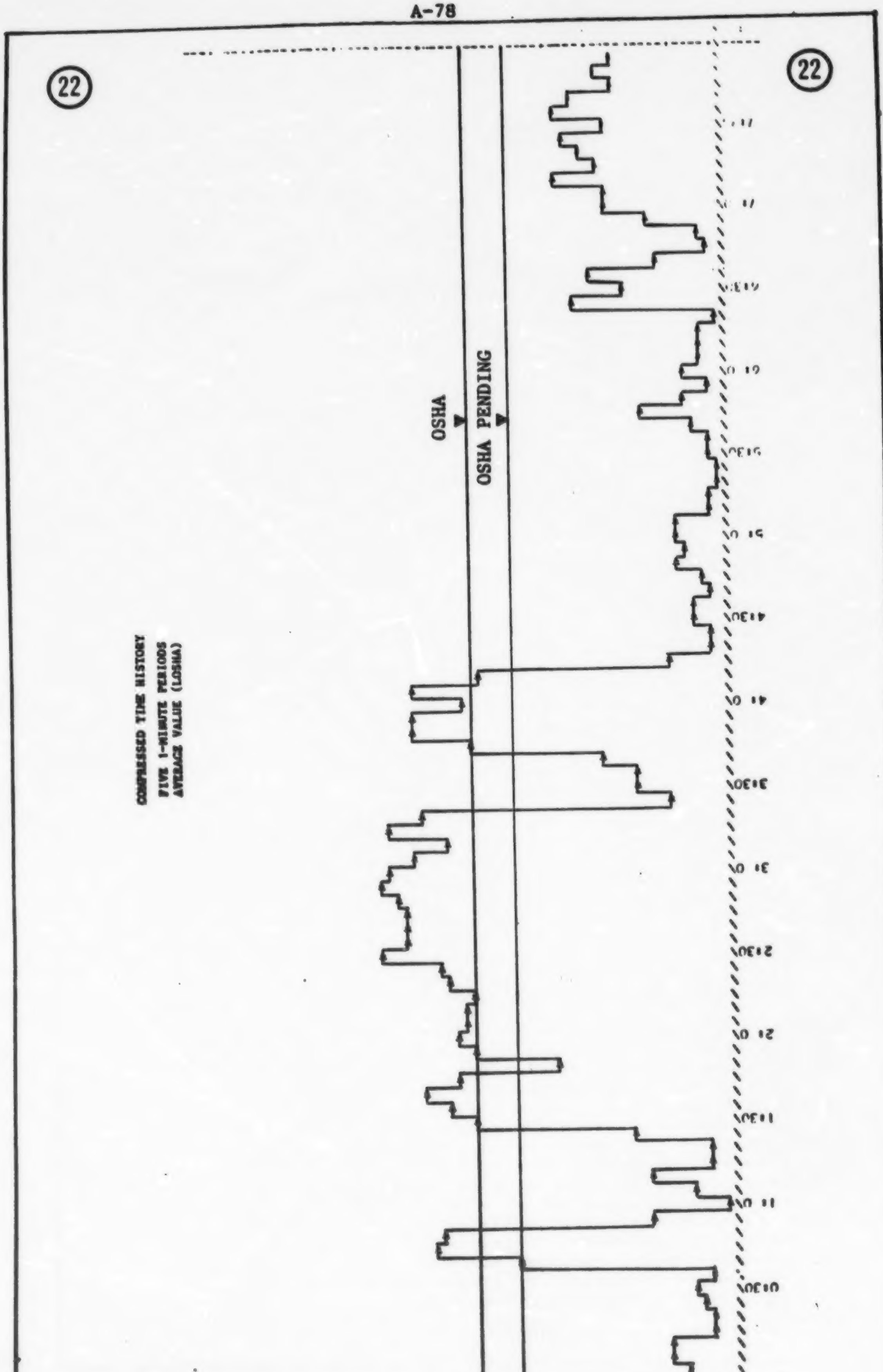
AMPLITUDE DISTRIBUTION



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
200	41.7	60 TO 64
67	14.0	65 TO 69
27	5.6	70 TO 74
25	5.2	75 TO 79
21	4.4	80 TO 84
23	4.8	85 TO 89
41	8.5	90 TO 94
55	11.5	95 TO 99
19	4.0	100 TO 104
2	.4	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


22
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
22

(23) (23)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1   26  80  1225   60   64    4    1
      136     115200  480
```

65	70	63	60	65	67	66	60	65	67	60	60	60	62	60	60
61	62	60	60	60	60	60	60	61	61	60	62	65	63	66	60
61	63	65	65	60	60	62	63	62	60	63	90	60	60	88	79
77	83	60	60	60	73	61	64	68	60	64	62	60	60	60	60
60	60	60	60	60	67	80	86	61	60	60	60	60	60	60	60
60	63	63	60	60	60	60	60	60	60	72	60	67	67	60	60
60	60	60	60	60	65	65	61	60	60	60	60	75	66	65	60
61	75	60	60	71	72	60	62	69	60	60	60	72	60	60	60
67	60	60	71	60	60	60	60	60	60	90	60	71	60	60	60
60	60	67	70	60	60	71	60	60	60	60	60	60	69	60	60
62	74	61	60	60	71	60	60	61	60	60	60	60	60	60	60
60	68	72	60	70	60	60	60	60	60	60	60	60	60	60	72
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	73
60	60	60	60	60	60	60	61	60	60	60	72	70	60	60	62
66	73	60	60	60	60	60	67	73	60	60	60	60	60	60	60
60	60	60	60	60	60	60	62	70	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	61	64	60	60	60	60
62	64	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	65	60	60	60	60	60
60	60	60	60	60	60	60	60	60	61	60	60	60	60	60	60
60	60	60	60	60	60	60	60	73	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	64	60	60	60	60	60
60	65	68	76	65	60	60	60	64	60	84	84	89	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	70	60	60	67	60	76	74	60	60	60	67	67	60	60	64
61	69	70	79	60	60	60	60	74	76	60	60	60	72	77	84
78	60	78	60	60	63	74	77	81	64	60	69	91	87	63	60
74	71	77	67	70	81	77	70	87	72	62	69	71	72	69	72

```
*EOF

ENTER LOG DATE (DD/MM/YR) : 15/08/79
ENTER SITE CODE (5 CHARS) : 1SH23
ENTER USER CODE (4 CHARS) : 4078
 ENTER JOB CODE (3 CHARS) : CDO
```

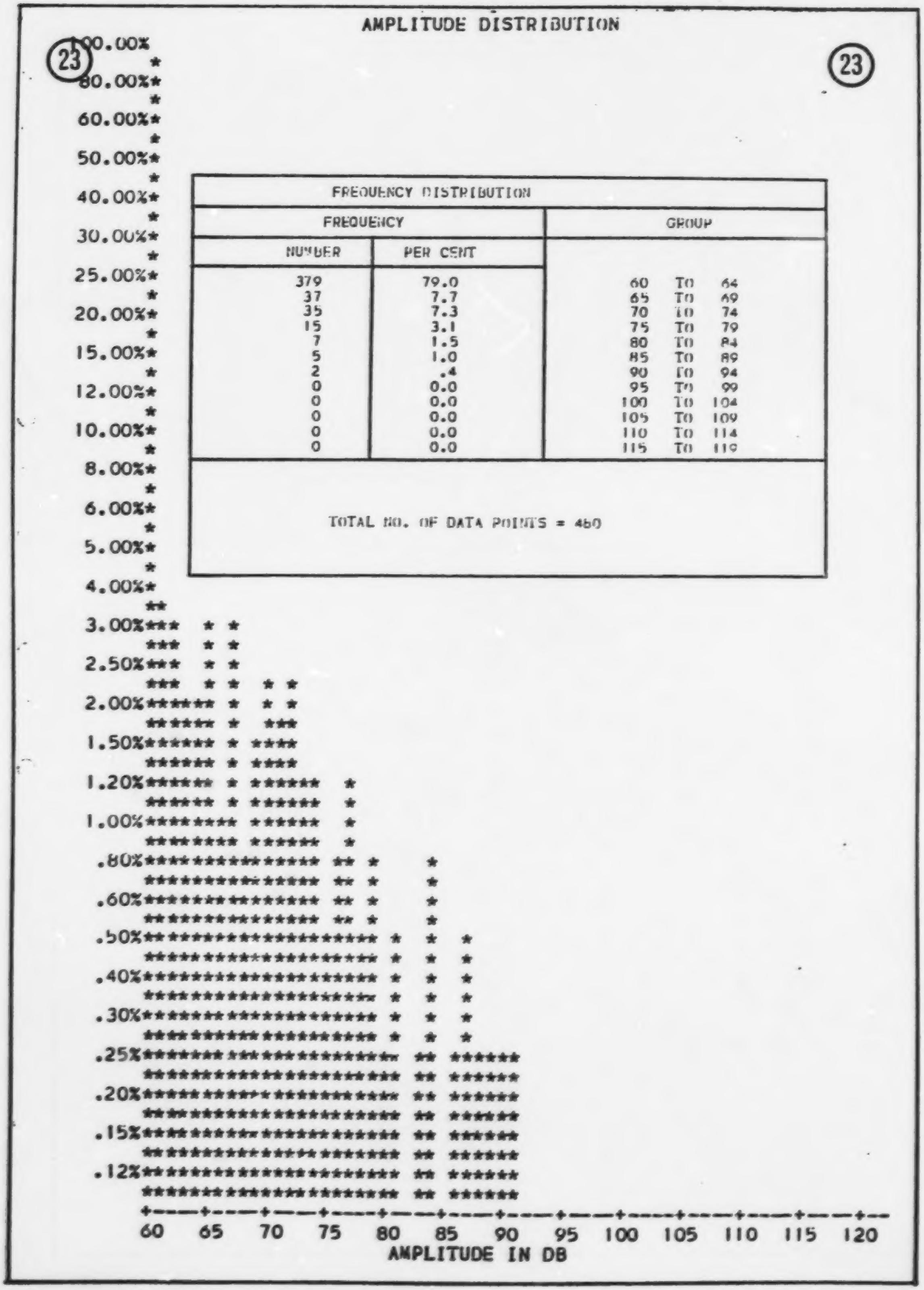
```
   DATA LOGGED :15  AUG 1979            DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/25                  SITE CODE : 1SH23
 SERIAL NUMBER : 1225                        JOB CODE : CBO
      BASELINE : 60 DB                      USER CODE : 4078
 DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0               STANDBY TIME =  [illegible]
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	LOSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	70.1	70.1	.797	.80
2	65.9	68.7	.508	1.31
3	63.9	67.4	.336	1.64
4	63.2	66.6	.303	1.94
5	60.5	65.7	.209	2.15
6	60.3	65.0	.203	2.35
7	64.3	65.6	.619	2.97
8	74.4	67.5	1.442	4.42

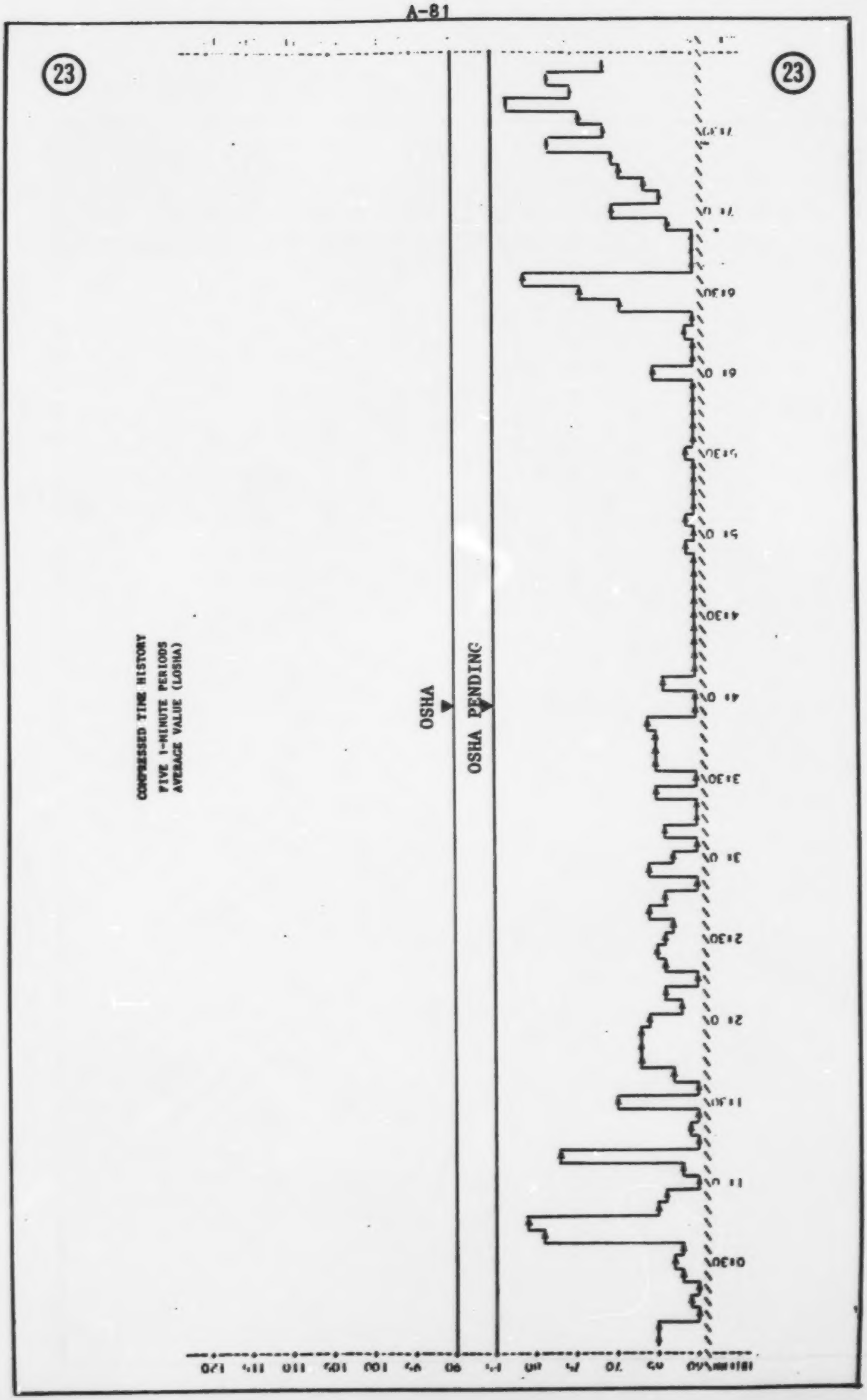
```
MIN. COMP. =  60 DB                MAX. COMP. =  91 DB
ARITHMETIC MEAN =  62 DB
STD. DEVIATION =   6 DB
VARIANCE = 36 DB
```



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
379	79.0	60 TO 64
37	7.7	65 TO 69
35	7.3	70 TO 74
15	3.1	75 TO 79
7	1.5	80 TO 84
5	1.0	85 TO 89
2	.4	90 TO 94
0	0.0	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



23
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(24)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1216 60 64 4 1

115 115200 480

66	60	61	67	69	71	66	60	60	60	60	60	60	60	60	62
65	68	62	60	60	64	62	75	74	71	68	60	60	60	60	60
60	60	60	60	62	71	65	66	64	74	73	68	60	76	63	71
67	71	72	63	67	69	61	82	95	80	91	91	97	97	96	95
96	95	96	97	95	94	87	89	87	94	98	93	95	95	90	65
62	67	65	65	60	61	60	61	60	61	62	73	74	73	72	61
70	60	60	60	60	61	91	94	95	93	91	94	93	93	94	92
92	92	89	92	87	60	95	96	94	79	83	76	60	62	60	60
60	60	60	78	84	67	61	62	65	61	63	64	60	60	60	60
61	61	60	60	60	60	60	61	74	67	66	91	74	92	93	91
92	92	94	93	92	91	82	60	60	95	97	96	67	94	99	[illegible]
94	96	94	95	95	94	87	83	81	79	79	70	60	60	60	60
[illegible]	60	60	63	64	80	72	65	63	61	60	60	60	60	60	60
60	61	60	60	62	64	60	60	61	60	61	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	85	94	95	97	96	99
96	86	98	95	98	99	97	99	96	94	96	96	97	95	97	95
99	98	96	94	97	92	70	68	66	61	60	64	63	62	61	62
60	60	60	61	61	60	61	60	60	60	60	86	96	96	99	99
96	95	96	95	93	94	95	93	90	95	89	62	63	80	93	87
84	82	82	82	82	81	81	82	79	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	86	91	92	73	64	60
73	88	87	83	82	83	84	86	90	88	79	60	60	60	63	60
61	61	60	62	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	61	60
60	65	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	85	95	96	97	98
97	97	98	99	98	89	97	96	97	94	95	95	95	95	89	63
60	60	60	60	60	60	60	61	61	73	63	60	60	60	60	60
60	60	60	60	60	60	64	86	93	90	93	86	88	81	81	91
96	83	60	60	75	60	60	60	60	73	89	85	80	71	86	80

%EOF

ENTER LOG DATE (DD/MM/YR) : 11/09/79

ENTER SITE CODE (5 CHARS) : 00344

ENTER USER CODE (4 CHARS) : 4505

ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED : 11 SEPT 1979

LOGGER : DB-301/25

SERIAL NUMBER : 1216

[illegible] : 60 DB

DYNAMIC RANGE : 64 DB

SAMPLING RATE : 4/SEC

TEST DURATION = [illegible]

DATA ANALYZED : 27 SEPT 1979

SITE CODE : 00344

[illegible] : [illegible]

[illegible] : [illegible]

[illegible] : [illegible]

TOTAL SAMPLES = 115200

[illegible] = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE [illegible] CALCULATIONS

[illegible]

[illegible]

[illegible]

[illegible]

NUMBER OF COMPUTATIONS = 480

PERIOD = 1 MINUTES

[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	73.1	73.1	1.196	1.20
2	90.4	[illegible]	13.147	14.34
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	17.671	44.92
6	79.6	86.8	3.041	47.96
7	7.1	85.4	4.807	52.77
8	60.3	85.3	7.445	60.21

MIN. COMP. = 60 DB

ARITHMETIC MEAN = 73 DB

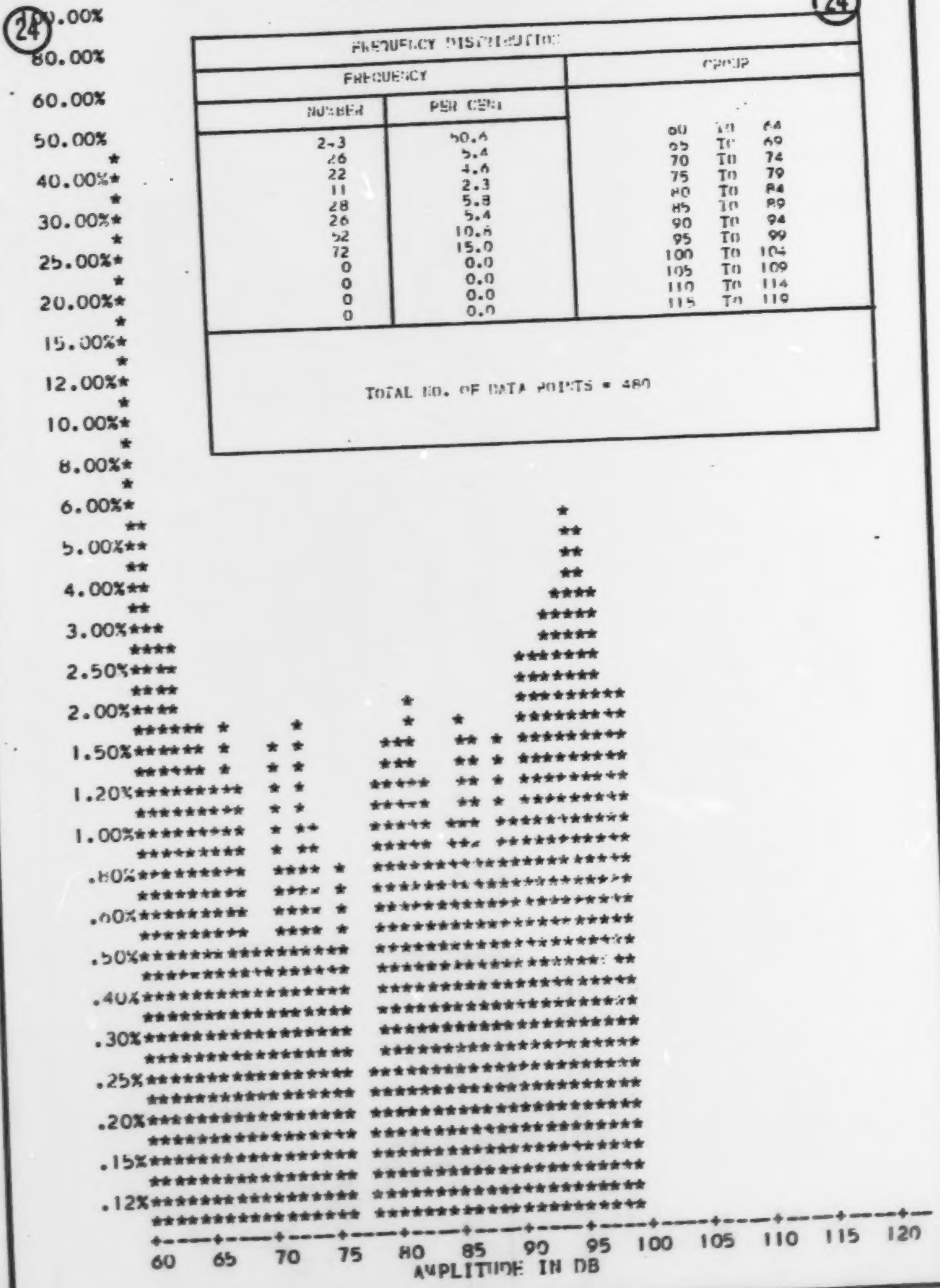
STD. DEVIATION = 15 DB

[illegible]

MAX. COMP. = 94 DB

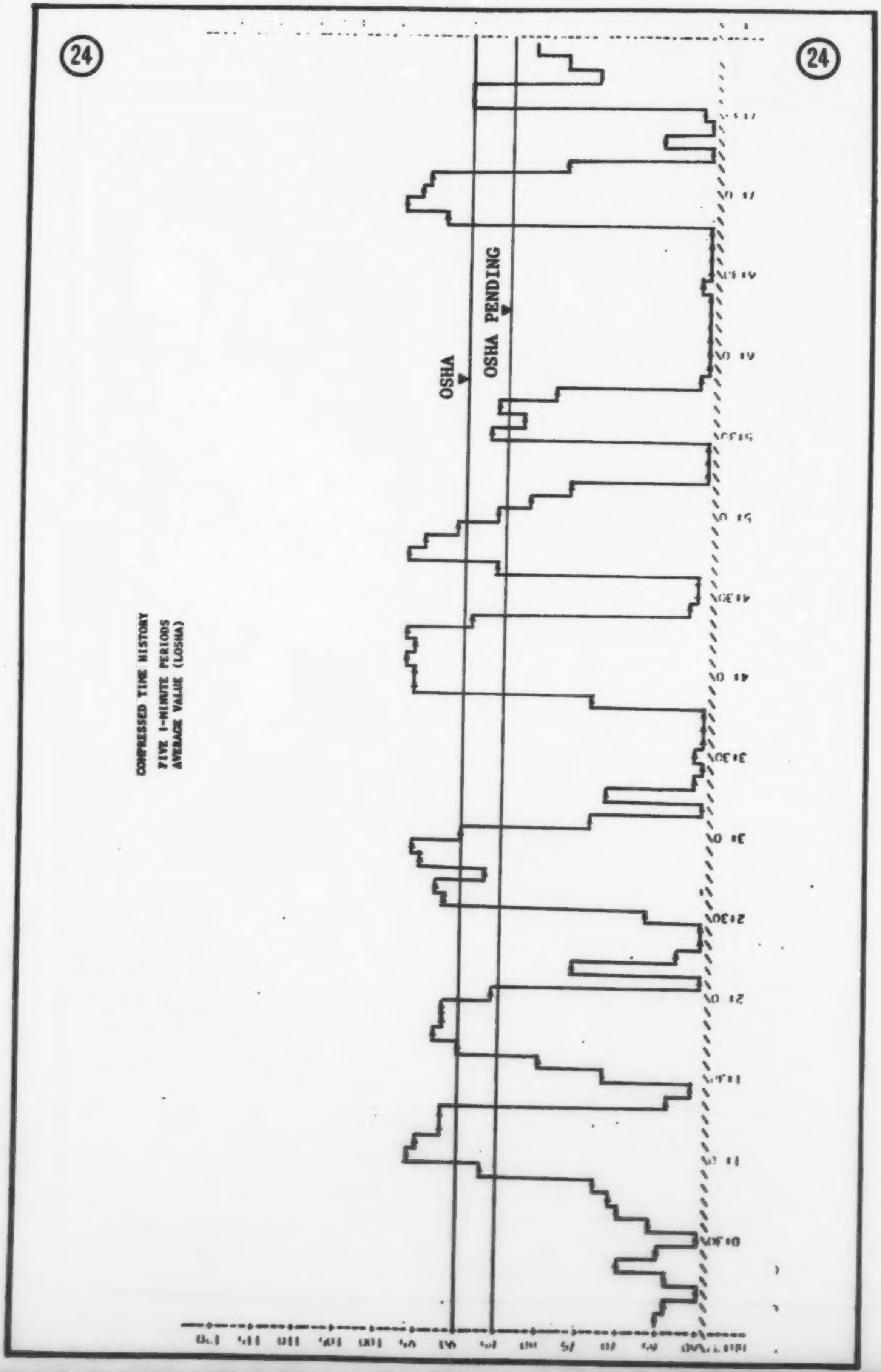
AMPLITUDE DISTRIBUTION

(24)



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
243	50.6	60 TO 64
26	5.4	65 TO 69
22	4.6	70 TO 74
11	2.3	75 TO 79
28	5.8	80 TO 84
26	5.4	85 TO 89
52	10.8	90 TO 94
72	15.0	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


24
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
24

(25) (25)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1216 60 64 4 1

106 115200 480

61	62	60	60	67	61	60	61	60	62	62	60	61	61	62	60
60	60	64	65	67	60	60	60	60	67	62	62	69	68	68	64
60	61	60	61	61	60	62	60	60	60	60	60	60	60	62	60
60	64	61	60	60	62	62	61	60	61	60	63	73	66	80	82
76	86	91	92	97	97	97	97	97	96	96	99	97	92	91	91
85	91	93	90	93	96	92	72	60	60	60	63	60	65	68	65
60	63	60	60	61	60	61	72	71	92	86	83	92	89	87	85
60	75	91	90	89	89	93	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	63	60
60	60	60	60	60	60	60	60	60	60	60	60	60	61	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	85
73	60	60	60	60	60	60	60	60	50	65	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	95	77
82	63	63	81	67	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
64	67	69	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	65
93	96	96	90	85	85	62	70	70	77	80	79	79	75	79	74
76	64	76	72	66	77	68	80	64	60	60	60	60	78	87	88

%EOF

ENTER LOG DATE (MM/DD/YR) : 10/09/79
ENTER SITE CODE (5 CHARS) : 00344

ENTER USER CODE (4 CHARS) : 4505
ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED : 10 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1216
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00344
JOB CODE : 230
USER CODE : 4505
THRESHOLD : [illegible]
TOTAL SAMPLES = [illegible]
START TIME = [illegible]

TIME HISTORY ANALYSIS

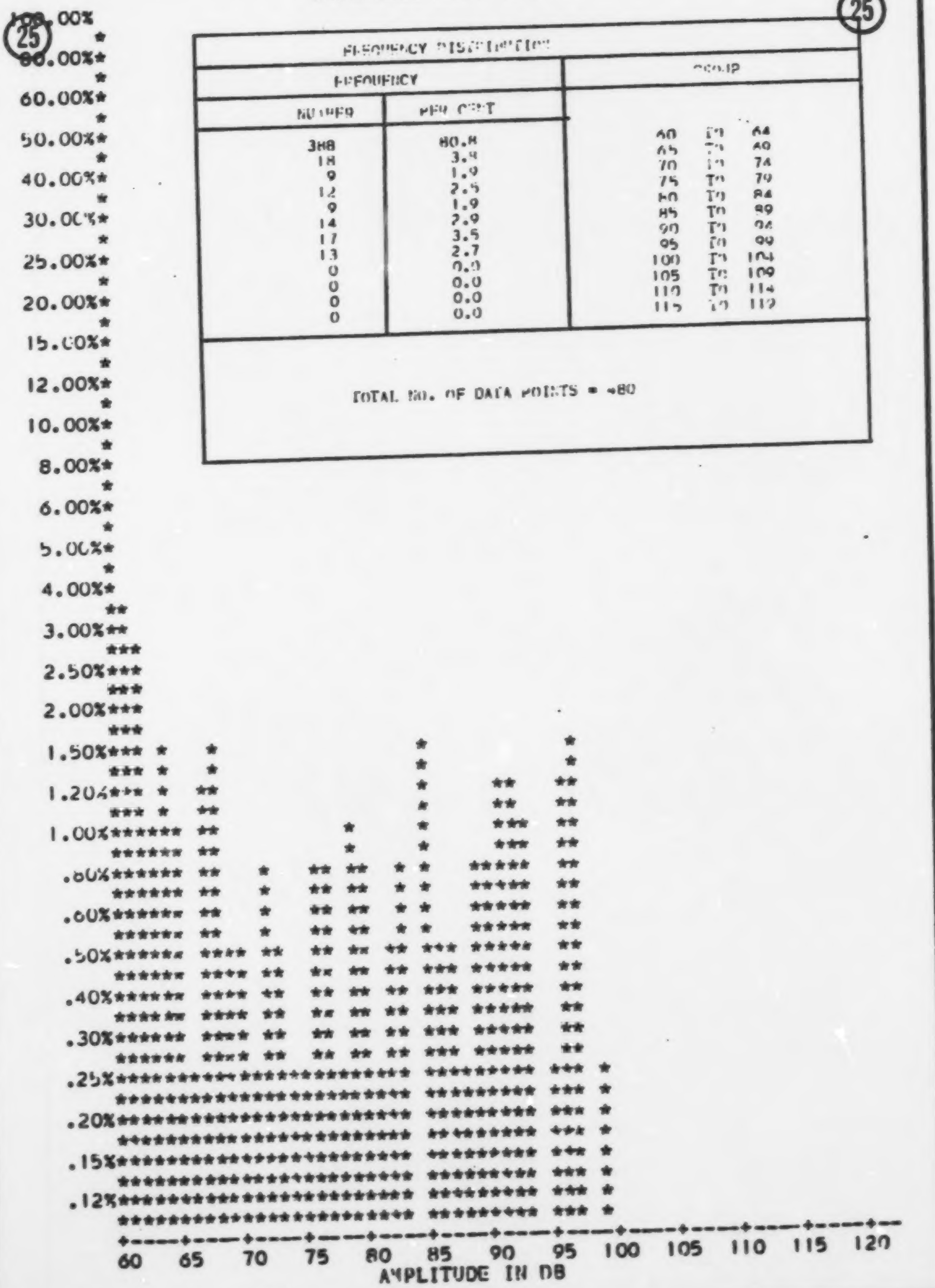
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
[illegible]
[illegible]
[illegible]
[illegible]
NUMBER OF COMPUTATIONS = 44.
PERIOD = 1 MINUTES

TIME	LOG		[illegible]	
[illegible]	[illegible]	CUMULATIVE	[illegible]	[illegible]
1	62.1	62.1	.[illegible]	.2[illegible]
2	89.0	84.2	10.9[illegible]1	11.21
3	60.4	81.4	.204	11.42
4	[illegible]	[illegible]	.1[illegible]	11.61
5	60.0	[illegible]	.19[illegible]	11.[illegible]1
6	72.1	77.3	1.039	12.[illegible]
7	60.6	76.3	.211	13.[illegible]
8	79.0	75.7	2.[illegible]	15.[illegible]

MIN. COMP. = 60 DB
MAX. COMP. = 99 DB
ARITHMETIC MEAN = 64 DB
STD. DEVIATION = 10 DB
VARIANCE =[illegible]

AMPLITUDE DISTRIBUTION

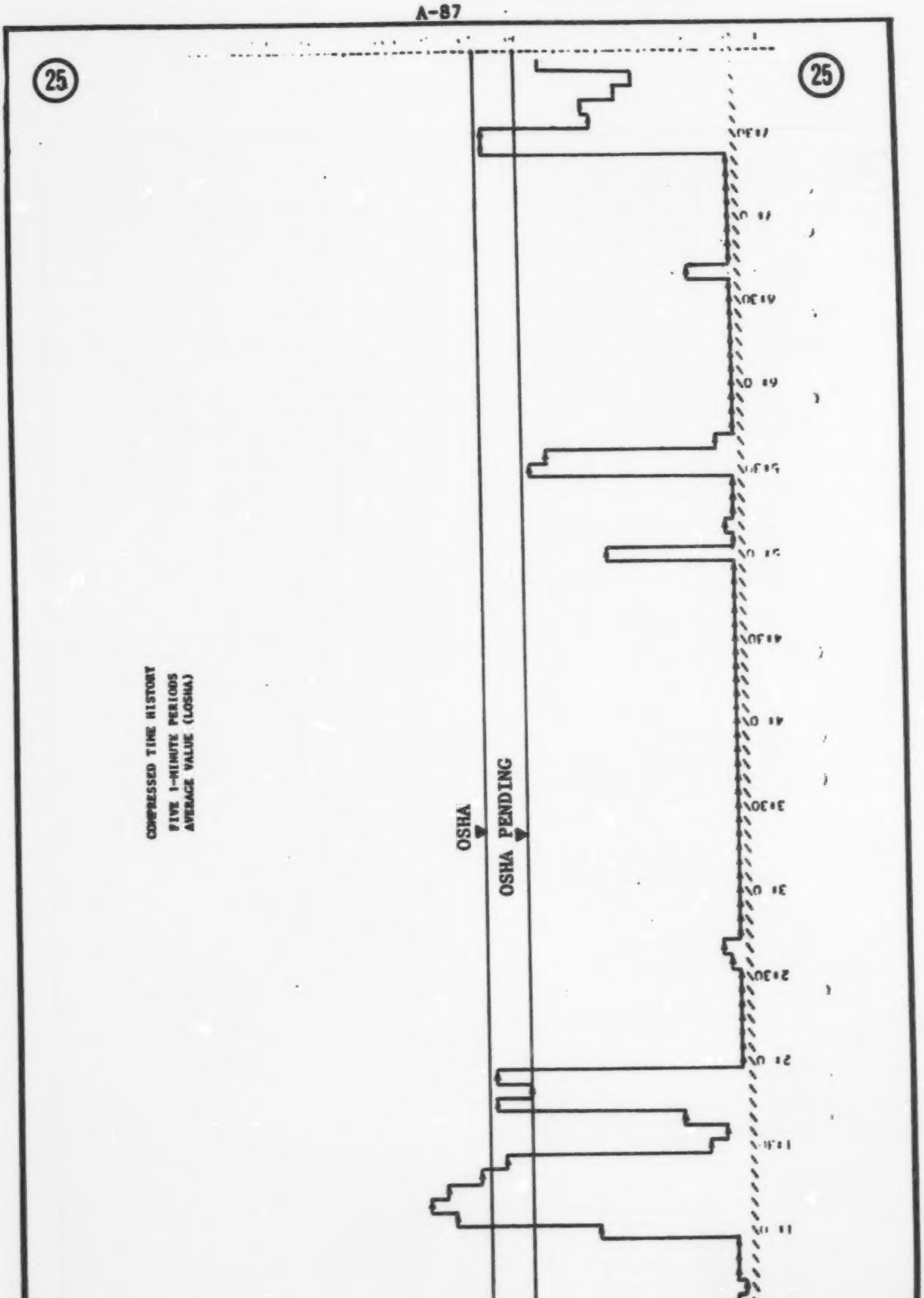
(25)



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
388	80.8	60 TO 64
18	3.8	65 TO 69
9	1.9	70 TO 74
12	2.5	75 TO 79
9	1.9	80 TO 84
14	2.9	85 TO 89
17	3.5	90 TO 94
13	2.7	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


25
25
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(26) (26)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1217 60 64 4 1
91 115200 480

60	61	60	65	60	67	73	75	75	60	60	60	61	60	61	60
60	62	64	64	73	67	62	67	75	70	72	76	66	68	70	63
72	65	69	67	69	62	66	69	62	60	60	61	64	75	70	60
78	76	74	80	74	68	65	79	75	81	86	88	82	78	96	84
85	84	96	91	72	72	70	77	75	71	76	78	75	70	73	72
72	73	74	66	80	83	73	85	86	69	70	82	84	85	91	90
89	84	87	87	94	93	80	76	62	66	62	60	60	60	97	60
72	78	95	97	96	96	97	95	96	97	97	87	62	60	63	78
75	60	60	60	63	63	60	60	67	60	62	60	60	60	60	60
60	72	60	60	64	60	60	60	60	60	60	60	60	60	60	60
60	60	65	87	84	83	83	84	84	81	85	82	87	78	85	84
60	64	60	60	79	85	84	84	81	83	83	83	82	84	83	83
64	73	69	67	71	75	63	75	65	70	73	69	76	64	68	66
74	68	61	65	62	60	60	66	60	65	60	66	61	66	66	73
62	60	74	63	60	63	71	60	71	80	60	60	72	85	86	71
60	60	60	60	60	60	60	66	90	80	92	86	81	78	81	73
66	60	60	60	63	67	69	86	73	72	83	75	82	85	83	80
81	80	82	81	79	72	79	75	76	73	80	82	84	84	86	84
89	83	84	81	84	84	83	85	70	83	82	81	80	82	81	83
81	80	76	80	77	75	77	85	80	80	83	84	84	83	83	80
81	80	80	81	79	61	60	65	64	61	75	91	81	84	83	82
69	85	92	84	82	84	83	97	81	66	86	67	60	76	85	77
69	60	91	81	82	82	82	82	82	82	82	82	82	82	82	82
82	82	82	82	82	82	83	82	82	82	82	82	82	82	82	82
82	83	82	82	82	82	83	83	82	84	90	82	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
71	65	60	60	60	90	82	94	98	94	95	97	99	100	98	99
98	99	100	98	94	96	90	91	99	100	100	99	99	99	100	100
99	97	101	91	93	81	82	80	81	80	78	80	80	80	80	88
93	84	97	92	85	89	92	93	94	98	96	95	95	95	95	95

*EOF

ENTER LOG DATE (DD/MM/YR) : 11/09/79
ENTER SITE CODE (5 CHARS) : 00347
ENTER USER CODE (4 CHARS) : 4609
ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED : 11 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1217
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

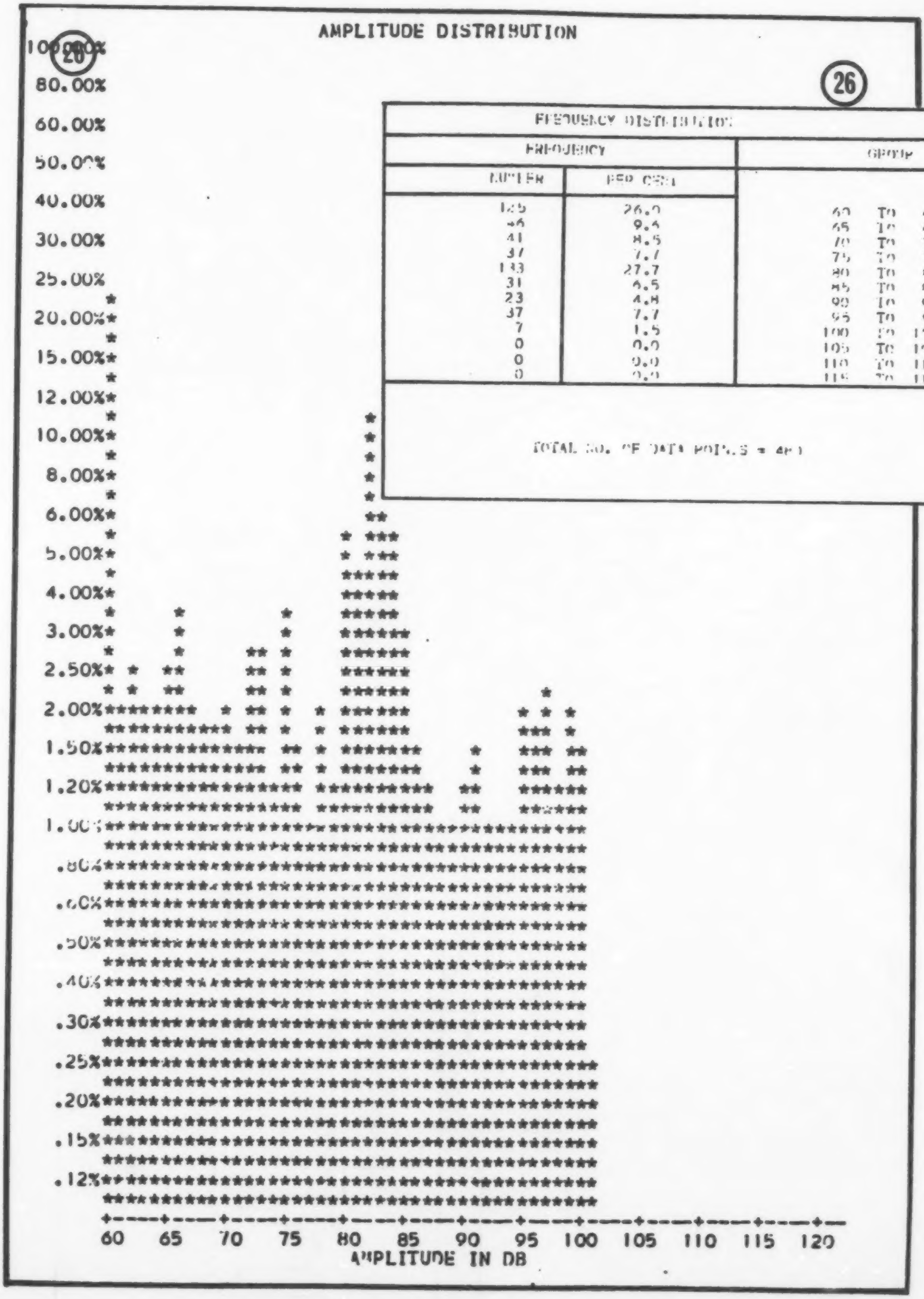
DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00347
JOB CODE : 230
USER CODE : 4609
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:22

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

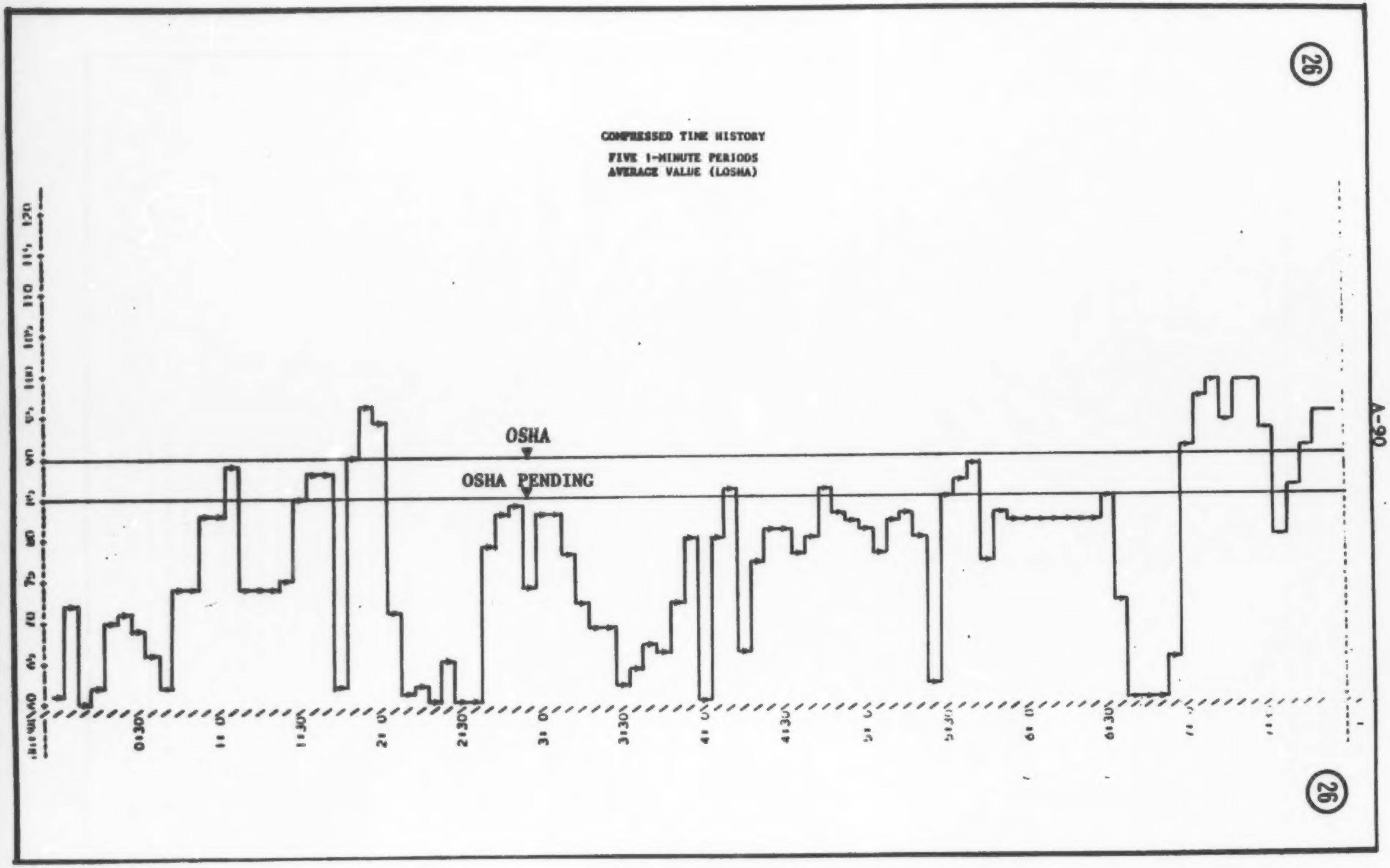
TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	72.0	72.0	1.037	1.04
2	86.2	82.1	7.345	8.38
3	80.0	81.5	3.124	11.51
4	75.5	80.4	1.673	13.18
5	80.7	80.4	3.445	16.63
6	82.6	80.9	4.474	21.10
7	79.1	80.6	2.770	23.87
8	95.0	84.9	25.131	49.01

MIN. COMP. = 60 DB
ARITHMETIC MEAN = 75 DB
STD. DEVIATION = 12 DB
VARIANCE =144 DB.
MAX. COMP. = 101 DB



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
125	26.0	60 TO 64
46	9.6	65 TO 69
41	8.5	70 TO 74
37	7.7	75 TO 79
133	27.7	80 TO 84
31	6.5	85 TO 89
23	4.8	90 TO 94
37	7.7	95 TO 99
7	1.5	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


26
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
26

(27) (27)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1213 60 64 4 1

95 115200 480

64	60	61	62	71	73	71	60	60	60	60	60	60	60	60	60
62	66	70	68	61	60	60	60	60	61	60	60	60	61	60	60
60	60	60	60	63	60	66	60	60	68	69	70	67	72	68	66
68	62	64	70	69	74	79	79	85	88	79	81	86	87	85	90
92	88	71	67	72	76	72	66	73	73	64	62	63	65	65	72
66	60	71	64	64	64	60	68	73	71	84	87	91	88	89	85
78	88	96	84	71	77	66	63	62	60	60	83	95	90	81	81
100	98	99	99	99	98	98	98	97	72	60	60	60	60	60	60
60	60	60	60	60	60	65	60	62	60	60	60	60	60	71	65
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
80	82	81	78	78	75	82	78	80	90	83	70	88	62	60	60
60	60	85	82	82	81	81	81	81	91	81	82	87	74	61	63
61	61	77	74	64	62	60	61	60	60	60	60	60	60	60	60
60	60	60	60	61	61	62	60	61	62	60	60	81	90	64	60
62	60	67	77	60	60	90	60	60	81	60	97	91	60	60	60
60	60	60	60	60	94	81	81	96	82	82	82	80	60	60	60
60	60	60	60	66	60	60	63	62	60	60	62	63	60	61	63
66	62	60	60	77	60	60	60	60	63	73	61	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	93	95	81	82	82	82	82	82	82	83	83	83
84	84	78	60	60	65	62	60	102	83	84	83	83	90	82	84
94	82	83	82	91	98	60	81	93	60	60	78	82	71	70	78
86	79	80	80	81	81	80	80	81	80	81	81	81	81	81	81
81	81	81	81	82	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	84	88	64	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	65	67
95	89	82	93	82	96	96	90	97	97	98	98	97	97	97	97
97	96	94	94	84	93	97	98	97	95	96	97	96	95	95	95
96	80	80	80	79	79	80	80	80	75	60	79	93	86	89	91
94	85	85	82	89	93	97	96	95	95	95	94	95	95	95	94

%EOF

ENTER LOG DATE (DD/MM/YR) : 11/09/79
ENTER SITE CODE (5 CHARS) : 00347

ENTER USER CODE (4 CHARS) : 4527
ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED : 11 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1213
BASELINE : [illegible]
DYNAMIC RANGE : [illegible]
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00347
JOB CODE : 230
USER CODE : 4527
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible]
[illegible]
[illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

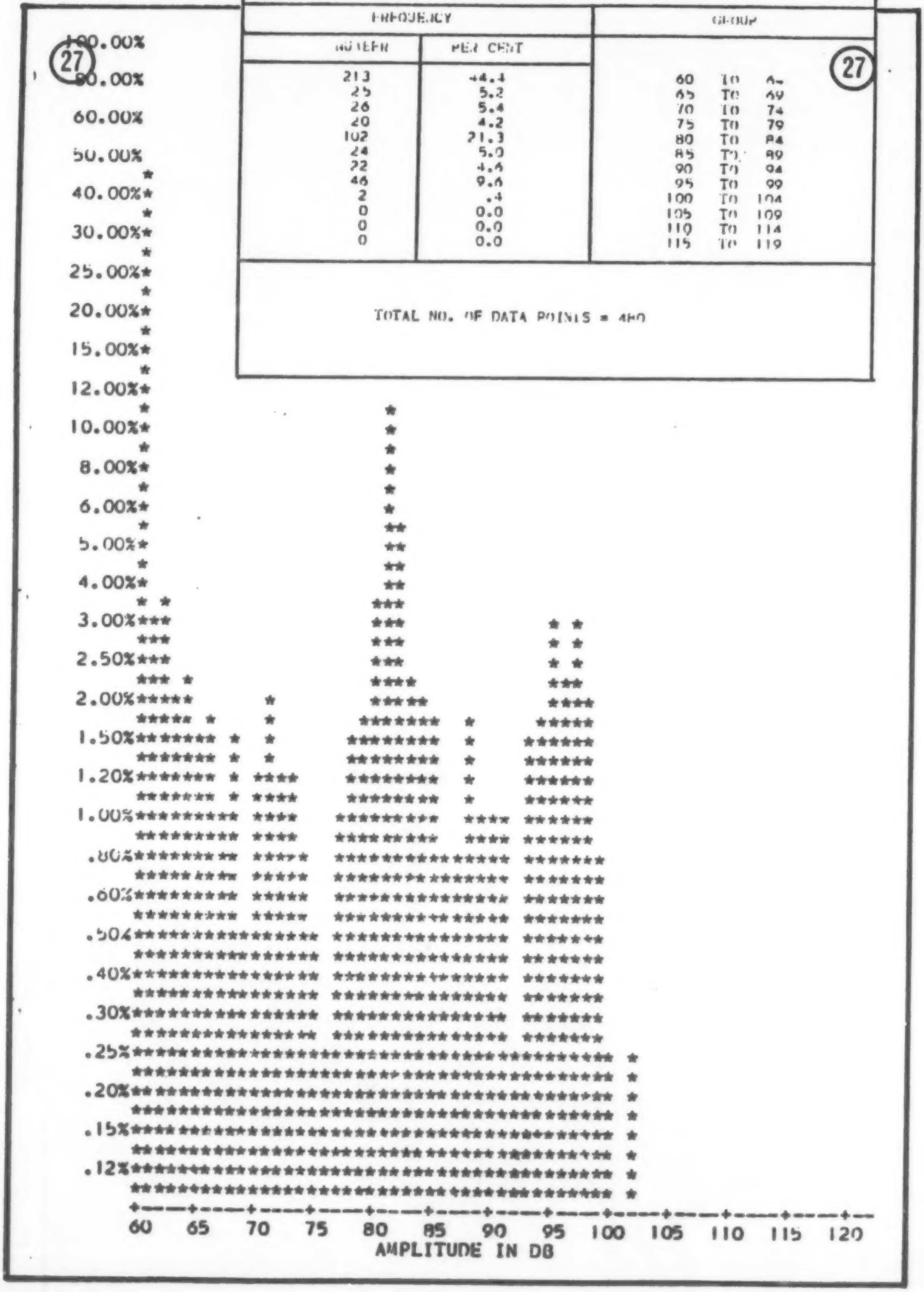
TIME HOUR	LOG-A CURRENT	LOG-A CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	70.2	70.2	.808	.81
2	87.9	83.5	9.347	10.16
3	[illegible]	81.7	1.700	11.86
4	77.1	[illegible]	2.086	13.[illegible]
5	74.5	79.9	1.4[illegible]	15.40
6	84.7	81.0	6.008	21.40
7	[illegible]	[illegible]	3.173	24.[illegible]
8	93.4	84.2	20.065	44.64

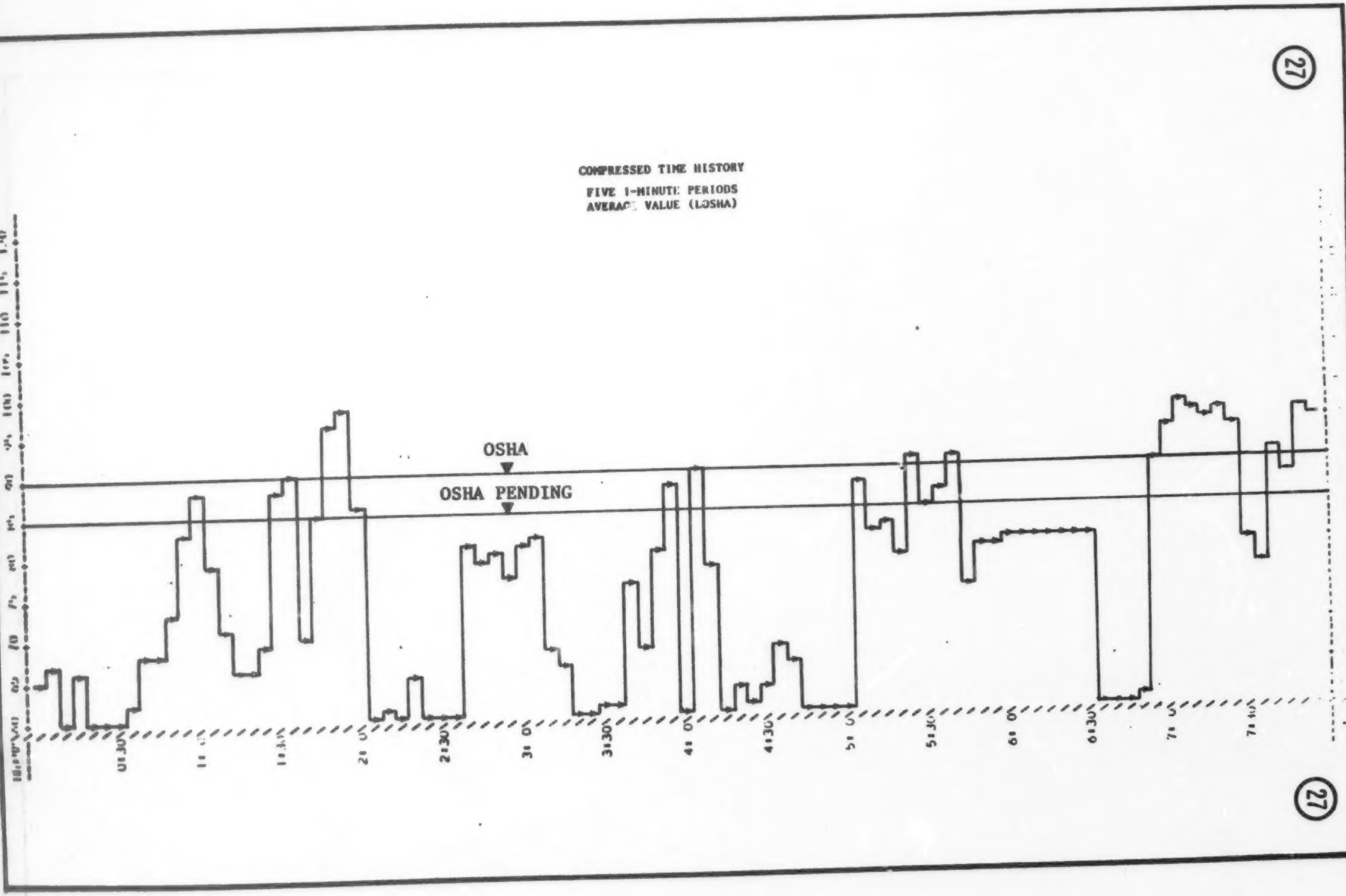
MIN. COMP. = 60 DB
MAX. COMP. = 102 DB
ARITHMETIC MEAN = 7[illegible] DB
STD. DEVIATION = 13 [illegible]
VARIANCE =169 DB

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
213	44.4	60 TO 64
25	5.2	65 TO 69
26	5.4	70 TO 74
20	4.2	75 TO 79
102	21.3	80 TO 84
24	5.0	85 TO 89
22	4.6	90 TO 94
46	9.6	95 TO 99
2	.4	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(27)




27
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
27

(28) (28)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1214 60 64 4 1
105 115200 480

62	70	70	67	60	60	60	60	60	60	60	60	60	61	69	70
61	61	60	77	71	71	68	60	69	61	60	60	60	74	61	60
60	64	65	61	60	60	60	60	64	64	74	78	67	72	65	77
63	61	67	79	78	85	85	85	91	91	97	97	95	97	97	95
98	97	88	80	74	79	60	60	62	60	60	67	60	60	64	65
60	60	60	60	61	60	61	69	68	62	60	60	72	66	64	67
67	61	60	67	73	62	62	65	63	62	63	70	60	63	61	60
60	66	69	61	68	62	60	64	60	60	60	61	60	63	65	64
71	66	74	72	77	70	77	71	60	68	60	65	60	63	62	69
75	60	69	61	65	62	62	60	60	60	60	61	64	66	65	63
60	61	63	60	60	60	62	64	63	62	60	60	68	60	62	60
62	60	60	60	60	66	60	61	60	60	63	60	69	60	62	82
75	69	61	60	61	62	60	60	66	72	60	65	69	66	65	70
64	69	62	72	77	84	98	82	102	96	96	95	94	95	95	95
94	95	96	96	96	90	70	90	91	96	98	92	97	99	95	97
100	98	100	99	98	101	98	98	96	100	95	96	97	95	97	97
94	95	97	92	98	94	94	98	95	95	97	96	96	96	102	95
63	61	60	68	61	63	60	60	63	64	62	60	60	60	62	63
66	60	62	65	61	60	60	60	64	66	63	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	69	60	65	67	60	67	60	60	60	60	60	60	60	60
69	60	60	62	60	60	60	64	60	63	60	60	60	61	60	61
61	64	61	62	62	60	61	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	64	60	60	60	60	60
60	69	75	60	65	70	99	96	94	87	88	92	96	98	98	98
97	95	93	77	96	95	79	98	101	101	101	101	100	101	100	100
95	96	99	101	101	102	100	100	92	86	86	87	87	88	89	93
101	102	102	102	102	101	103	103	101	100	100	98	99	99	93	96
100	95	97	96	95	101	100	90	74	94	104	105	100	62	64	83

%EOF

ENTER LOG DATE (DD/MM/YR) : 11/09/79

ENTER SITE CODE (5 CHARS) : 00348

ENTER USER CODE (4 CHARS) : 4830
ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED : 11 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1214
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00348
JOB CODE : 230
USER CODE : 4830
THRESHOLD : [illegible] DB
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

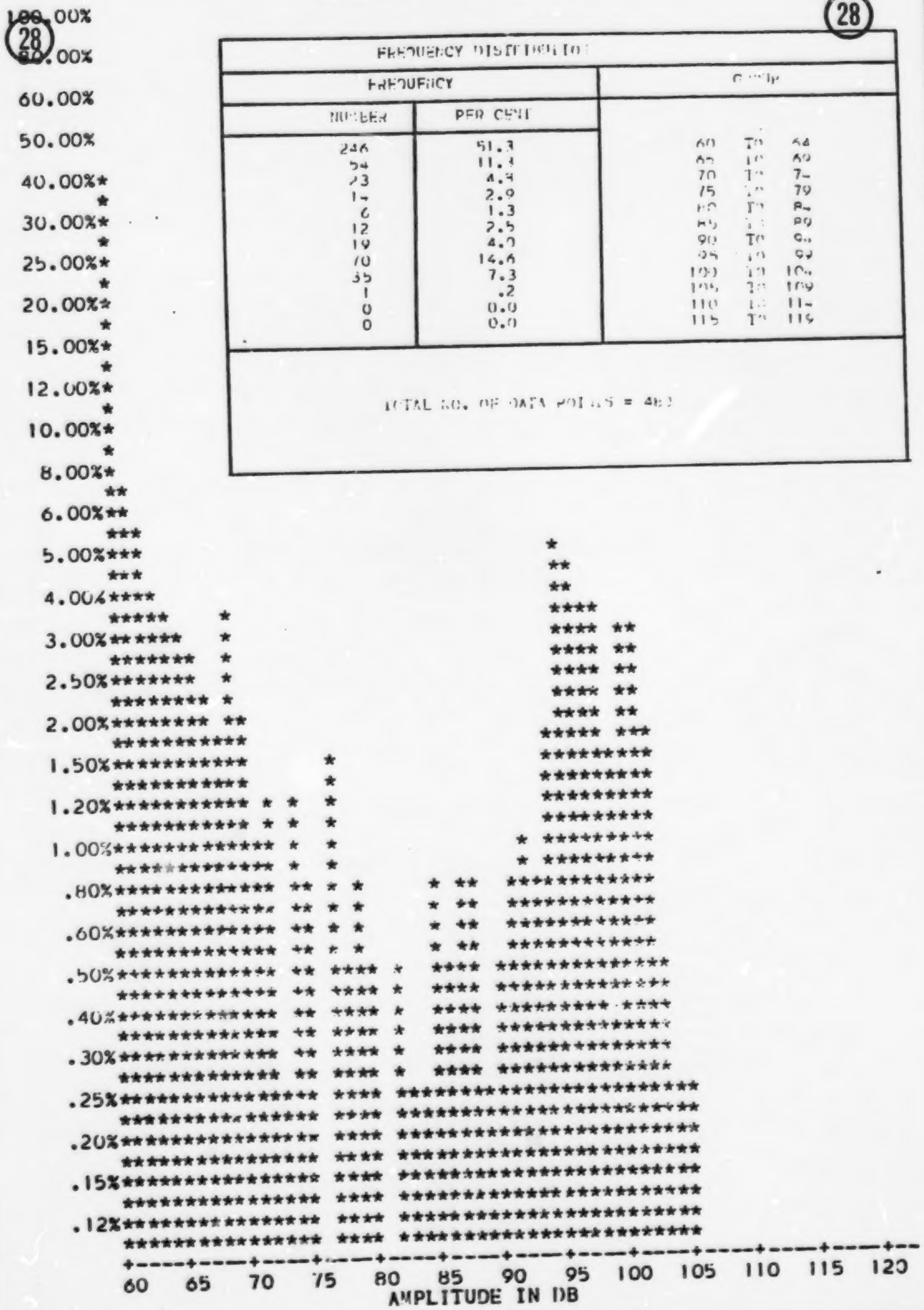
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HOURS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LEQ		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	78.1	78.1	2.404	2.40
2	81.2	79.8	3.697	6.10
3	65.6	77.4	.427	6.53
4	89.5	82.7	11.713	18.24
5	92.7	86.1	18.204	36.44
6	61.4	84.9	.237	36.68
7	84.7	84.8	6.023	42.71
8	98.4	88.6	39.897	82.61

MIN. COMP. = 60 DB MAX. COMP. = 105 DB
ARITHMETIC MEAN = 72 DB
STD. DEVIATION = 16 DB
VARIANCE =255 DB

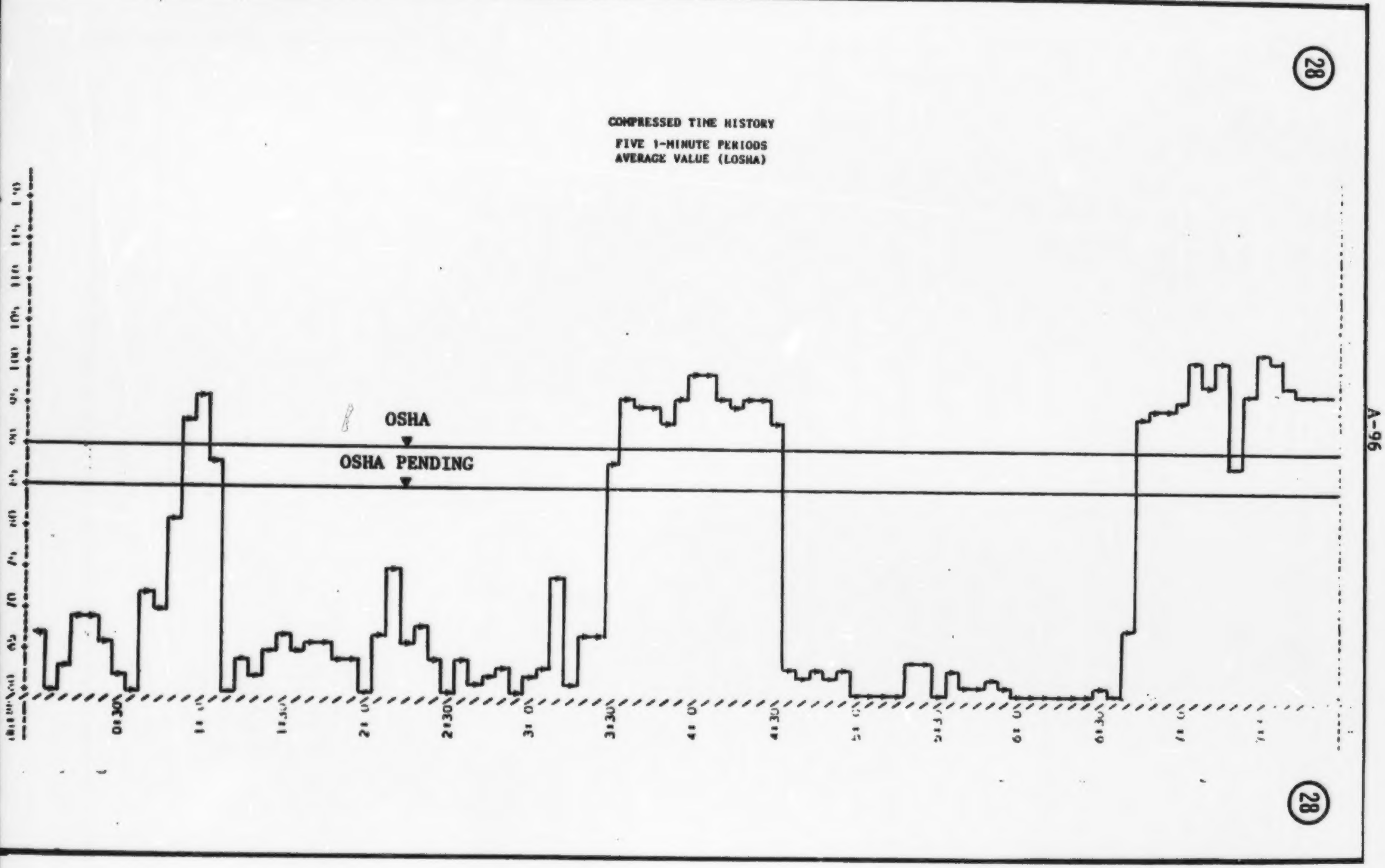
AMPLITUDE DISTRIBUTION

(28)



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
246	51.3	60 TO 64
54	11.3	65 TO 69
23	4.8	70 TO 74
14	2.9	75 TO 79
6	1.3	80 TO 84
12	2.5	85 TO 89
19	4.0	90 TO 94
70	14.6	95 TO 99
35	7.3	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


28
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
2:30
3:30
4:30
6:30
28

(29) (29)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
1 26 80 1217 60 64 4 1
81 115200 480

60	60	60	60	60	60	60	60	60	60	60	60	60	64	64	72
73	63	70	60	60	62	60	60	60	66	64	64	61	71	60	76
71	67	66	61	63	68	70	72	69	65	70	62	66	60	66	63
53	61	62	64	66	72	73	67	72	77	73	77	72	79	90	91
92	96	95	92	93	95	96	92	97	97	92	74	60	72	60	60
60	65	60	61	62	60	65	67	60	60	65	62	65	60	60	60
60	60	61	60	60	60	64	65	74	69	60	63	64	60	65	66
66	71	64	62	65	63	67	66	67	69	65	65	62	66	67	65
65	60	60	66	63	60	60	60	63	67	67	64	60	62	62	63
60	67	60	60	60	70	60	61	65	65	60	60	62	60	60	65
67	60	60	60	60	63	60	60	60	60	60	61	62	65	70	72
65	69	64	64	60	60	61	60	60	73	75	94	105	93	91	76
103	94	95	96	95	95	94	94	94	93	93	93	94	93	92	88
94	94	94	94	93	87	75	97	92	96	97	96	97	98	96	95
94	87	93	86	91	93	95	93	86	93	91	89	94	93	83	83
83	83	83	83	83	83	83	83	83	83	83	83	83	83	88	95
91	92	95	97	95	89	91	95	84	94	93	95	95	92	89	91
95	93	91	95	95	95	95	96	96	81	102	94	96	97	97	95
95	94	94	94	93	93	95	93	90	60	65	60	62	66	66	68
61	61	70	63	62	60	70	67	71	61	61	67	60	73	76	69
70	72	74	79	83	76	67	60	70	60	60	60	61	60	65	60
79	72	66	71	74	82	76	63	61	65	62	64	74	76	78	89
91	60	60	63	61	63	60	64	67	69	61	65	69	64	75	71
61	71	87	77	93	95	94	93	93	93	93	93	93	94	93	93
97	96	95	95	95	95	95	95	95	97	95	94	94	94	94	95
95	95	95	95	95	92	95	95	91	94	95	89	88	90	87	87
87	88	67	91	93	94	94	87	95	91	93	90	89	92	91	95
95	96	75	72	74	76	77	79	73	76	76	71	82	79	84	83
75	87	84	87	86	82	73	77	85	82	89	74	75	91	77	72
84	96	99	99	98	99	101	98	99	93	97	105	102	98	100	93

%EOF

ENTER LOG DATE (MD/DY/YR) : 12/09/79
ENTER SITE CODE (5 CHARS) : 00348

ENTER USER CODE (4 CHARS) : 4531
ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED :12 SEPT 1979
LOGGER : 95-301/26
SERIAL NUMBER : 1217
[illegible]
[illegible]
SAMPLING RATE : [illegible]
TEST [illegible] = [illegible]

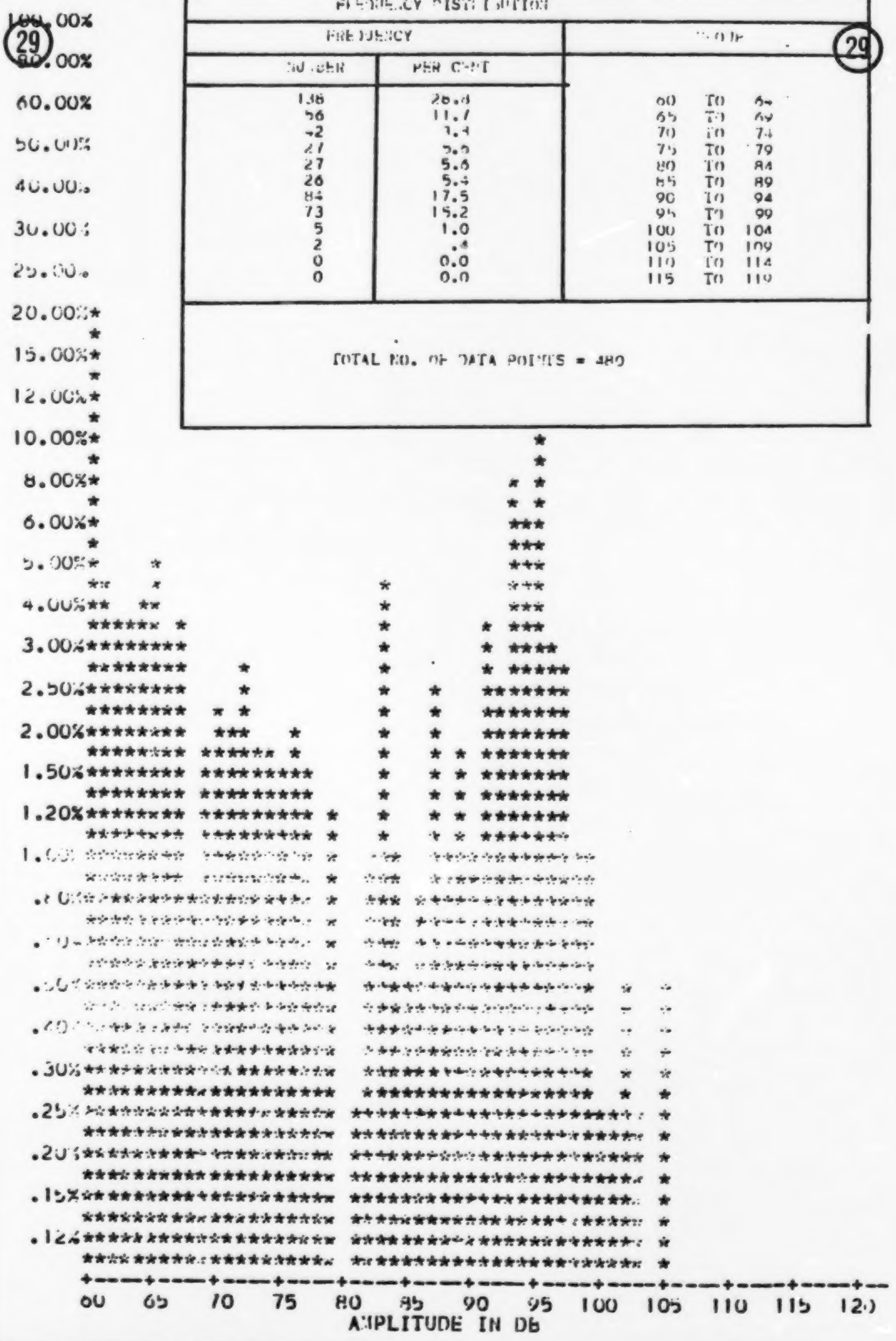
DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00348
JOB CODE : 230
USER CODE : 4531
[illegible]
TOTAL SAMPLE = [illegible]
[illegible] = [illegible]

TIME HISTORY ANALYSIS

[illegible] INDEX (L.E.I.) CALCULATION
[illegible] FOLLOWING :
[illegible]
[illegible] RATE = [illegible]
[illegible] LEVEL = [illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	67.0	67.0	.515	.52
2	83.7	79.4	5.202	5.72
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	16.[illegible]	42.41
6	73.2	[illegible]	1.211	43.62
7	[illegible]	[illegible]	16.[illegible]	[illegible]
8	[illegible]	[illegible]	17.[illegible]	77.72

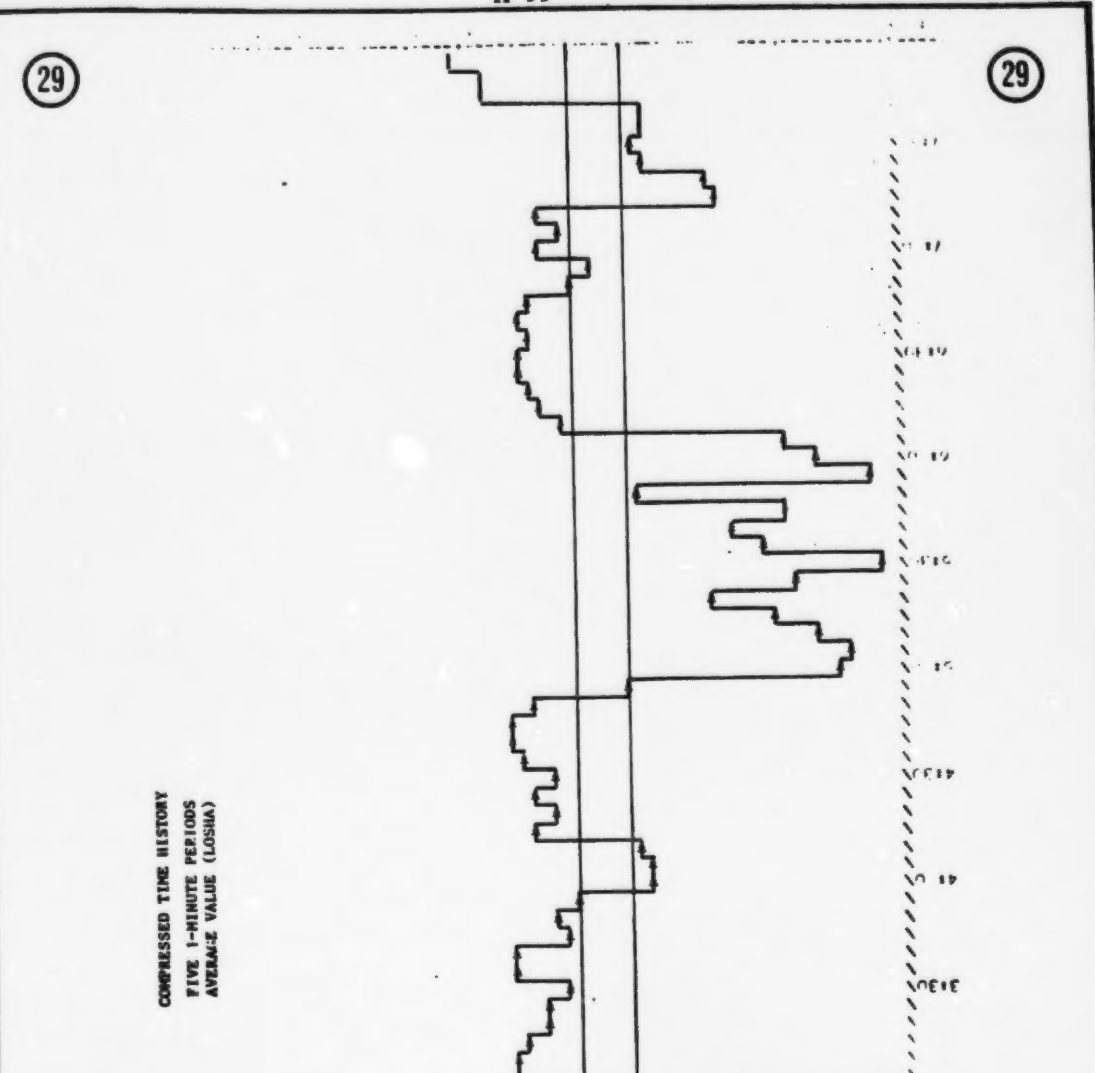
MIN. COMP. = 60 DB
MAX. COMP. = 105 DB
ARITHMETIC MEAN = 77 DB
STD. DEVIATION = 14 [illegible]
VARIANCE = [illegible]



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
138	28.8	60 TO 64
56	11.7	65 TO 69
42	8.8	70 TO 74
27	5.6	75 TO 79
27	5.6	80 TO 84
26	5.4	85 TO 89
84	17.5	90 TO 94
73	15.2	95 TO 99
5	1.0	100 TO 104
2	.4	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

29


29
29
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

30

30

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1	26	80	1219	60	64	4	1								
	90		115200	480											
63	60	60	60	60	60	61	63	63	60	68	71	74	67	60	63
70	74	77	62	62	60	60	63	70	65	70	74	73	78	69	63
69	61	72	70	71	70	77	79	72	74	82	66	63	67	65	74
68	67	74	70	68	71	74	74	66	69	71	67	61	67	68	60
64	60	60	70	71	70	71	69	73	77	77	65	60	60	60	60
60	63	61	71	60	60	63	72	78	84	93	89	90	96	96	94
89	88	90	90	93	88	87	86	86	86	90	88	88	88	90	90
89	89	82	65	68	60	60	60	70	62	61	60	60	63	64	60
60	60	64	68	60	71	60	70	60	60	60	60	60	67	74	69
72	67	67	60	66	70	73	69	60	71	70	60	64	60	60	71
77	60	65	66	60	67	60	60	68	69	60	64	60	71	61	60
62	61	66	68	71	71	62	63	60	60	60	60	60	60	60	62
60	60	60	74	63	60	60	60	60	60	65	85	79	91	92	90
87	73	68	79	60	60	60	89	86	86	82	87	88	87	89	86
84	93	85	77	85	86	88	82	78	81	89	90	89	88	91	96
81	78	69	62	65	90	87	88	88	93	95	95	95	95	94	94
95	95	95	95	96	94	95	95	95	94	96	95	95	94	94	94
95	95	95	95	97	97	95	94	93	96	95	95	94	94	94	94
95	95	95	95	94	94	94	95	94	94	95	95	87	67	73	65
66	65	63	60	60	60	60	60	61	60	60	60	60	61	60	60
60	61	60	60	60	60	60	61	60	60	62	62	60	83	87	70
90	84	70	87	88	89	88	89	87	89	89	89	89	88	89	89
89	88	90	89	87	89	89	87	60	60	60	60	74	60	60	60
60	60	70	60	60	60	60	60	85	85	92	92	90	91	92	92
92	92	91	91	83	60	68	60	88	89	90	89	87	90	88	89
91	91	91	86	90	90	90	91	91	91	90	91	90	91	91	91
91	90	92	90	88	90	89	89	91	90	90	90	90	92	90	89
87	89	88	89	88	90	89	90	90	91	90	91	90	90	90	91
85	90	91	91	90	91	90	89	89	88	88	89	92	80	86	91
63	68	93	93	94	94	95	86	96	95	93	93	93	93	93	92

%EOF

ENTER LOG DATE (DD/MM/YR) : 10/09/79
ENTER SITE CODE (5 CHARS) : 00350
ENTER USER CODE (4 CHARS) : 4267
ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED :10 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1219
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00350
JOB CODE : 230
USER CODE : 4267
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

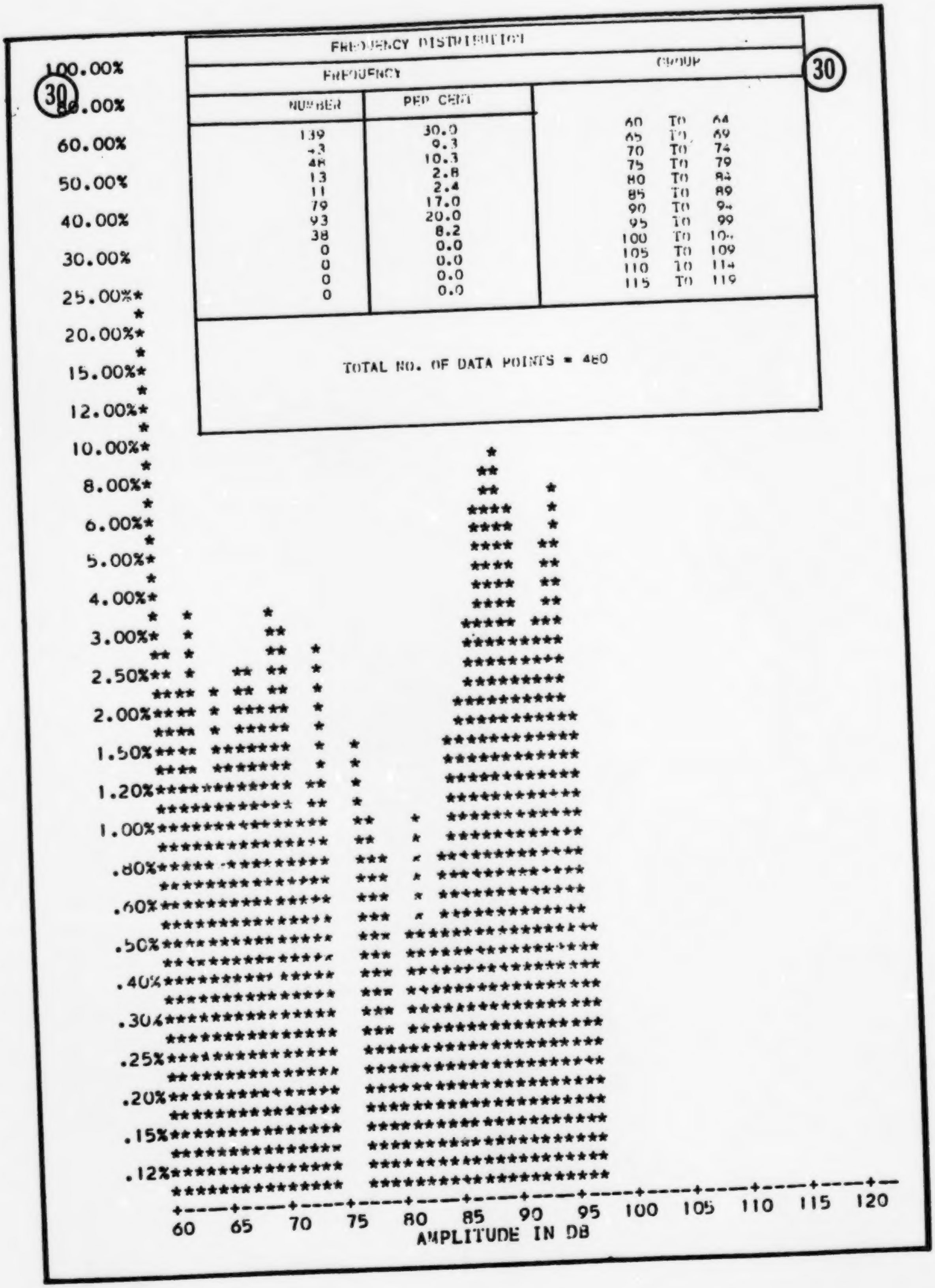
TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	%DOSE CURRENT	%DOSE CUMULATIVE
1	70.2	70.2	.802	.80
2	84.2	80.2	5.583	6.38
3	66.2	77.7	.458	6.84
4	83.4	79.6	4.985	11.83
5	93.9	85.4	21.366	33.19
6	82.4	85.0	4.387	37.58
7	87.5	85.4	8.809	[illegible]
8	90.5	86.3	13.476	59.96

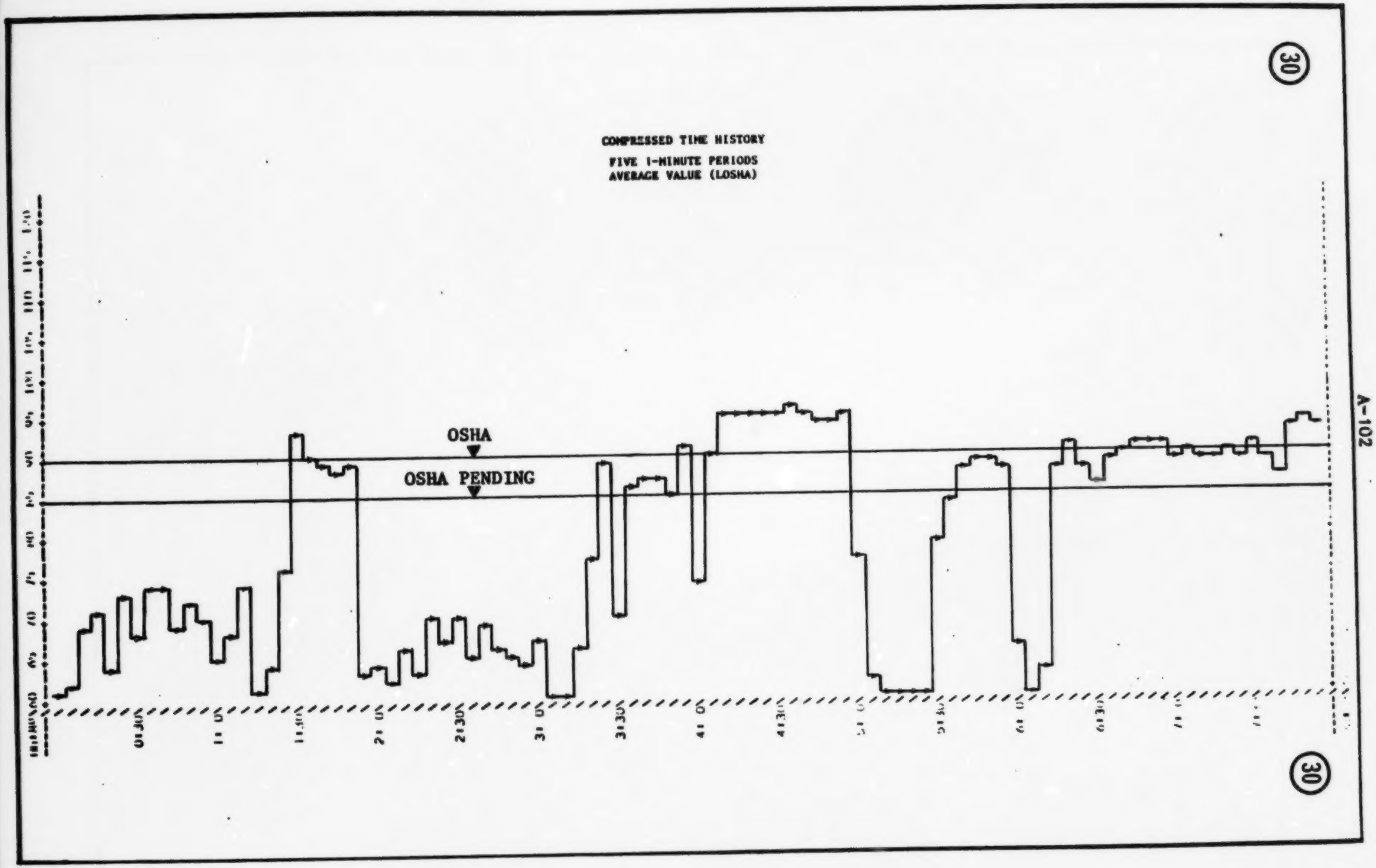
MIN. COMP. = 60 DB
MAX. COMP. = 97 DB
ARITHMETIC MEAN = 77 DB
STD. DEVIATION = 14 DB
VARIANCE = 196 DB

(30)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
139	30.0	60 TO 64
43	9.3	65 TO 69
48	10.3	70 TO 74
13	2.8	75 TO 79
11	2.4	80 TO 84
79	17.0	85 TO 89
93	20.0	90 TO 94
38	8.2	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 460




30
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
30

(31) (31)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1219 60 64 4 1

92 115200 480

68	71	75	76	67	60	60	62	60	62	60	60	63	60	64	81
78	82	76	70	73	64	75	81	66	64	69	60	71	63	66	62
65	60	77	65	63	68	60	70	61	77	70	77	72	69	79	76
72	70	72	69	81	60	60	60	60	61	60	60	60	60	68	62
69	73	65	76	64	85	89	85	78	81	83	87	79	88	82	82
85	75	80	84	85	79	80	83	86	93	92	91	89	89	89	92
90	[illegible]	84	[illegible]	84	86	90	90	85	86	95	84	74	60	62	62
60	65	65	61	66	60	60	69	72	63	62	61	68	63	60	73
61	60	75	72	67	60	70	68	76	80	79	76	73	66	60	64
60	61	62	65	61	60	62	60	60	60	60	80	82	83	83	86
[illegible]	87	96	97	98	98	[illegible]	98	97	97	96	96	96	97	96	[illegible]
91	90	91	90	92	91	91	90	93	92	93	91	90	84	80	74
88	89	89	89	87	89	81	82	72	71	86	76	80	91	77	80
79	80	79	80	80	75	80	80	78	80	84	87	86	86	86	85
69	96	97	96	94	95	94	95	94	82	60	80	78	73	78	90
94	92	92	93	87	91	92	60	60	60	62	72	74	70	74	66
60	67	60	68	86	95	97	97	97	87	77	90	97	95	94	94
93	91	91	91	92	92	90	91	92	92	91	91	86	75	77	78
76	74	70	62	60	60	60	60	60	60	60	60	66	64	86	88
60	60	60	60	60	60	60	60	60	74	85	90	94	85	81	83
84	96	95	94	91	92	91	90	89	91	92	90	90	92	91	91
91	92	91	92	90	93	92	91	91	89	91	89	91	92	90	89
93	92	91	90	90	89	89	94	92	91	90	92	90	93	90	92
92	92	91	90	88	86	89	90	92	90	92	91	92	91	90	91
89	89	90	93	92	87	74	76	75	77	77	79	77	66	73	71
74	67	71	73	75	70	78	74	78	92	93	90	92	91	84	92
96	94	94	93	89	91	92	93	95	94	84	90	96	95	95	92
91	93	91	92	77	60	75	88	77	87	93	97	96	94	85	86
94	96	97	96	94	94	94	92	94	94	93	94	93	95	94	92
94	95	93	93	93	95	92	93	96	94	93	94	95	94	92	78

%EOF

ENTER LOG DATE (DD/MM/YR) : 11/09/79
ENTER SITE CODE (5 CHARS) : 00351
ENTER USER CODE (4 CHARS) : 4621

ENTER JOB CODE (3 CHARS) : 230

DATA LOGGED : 11 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1219
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

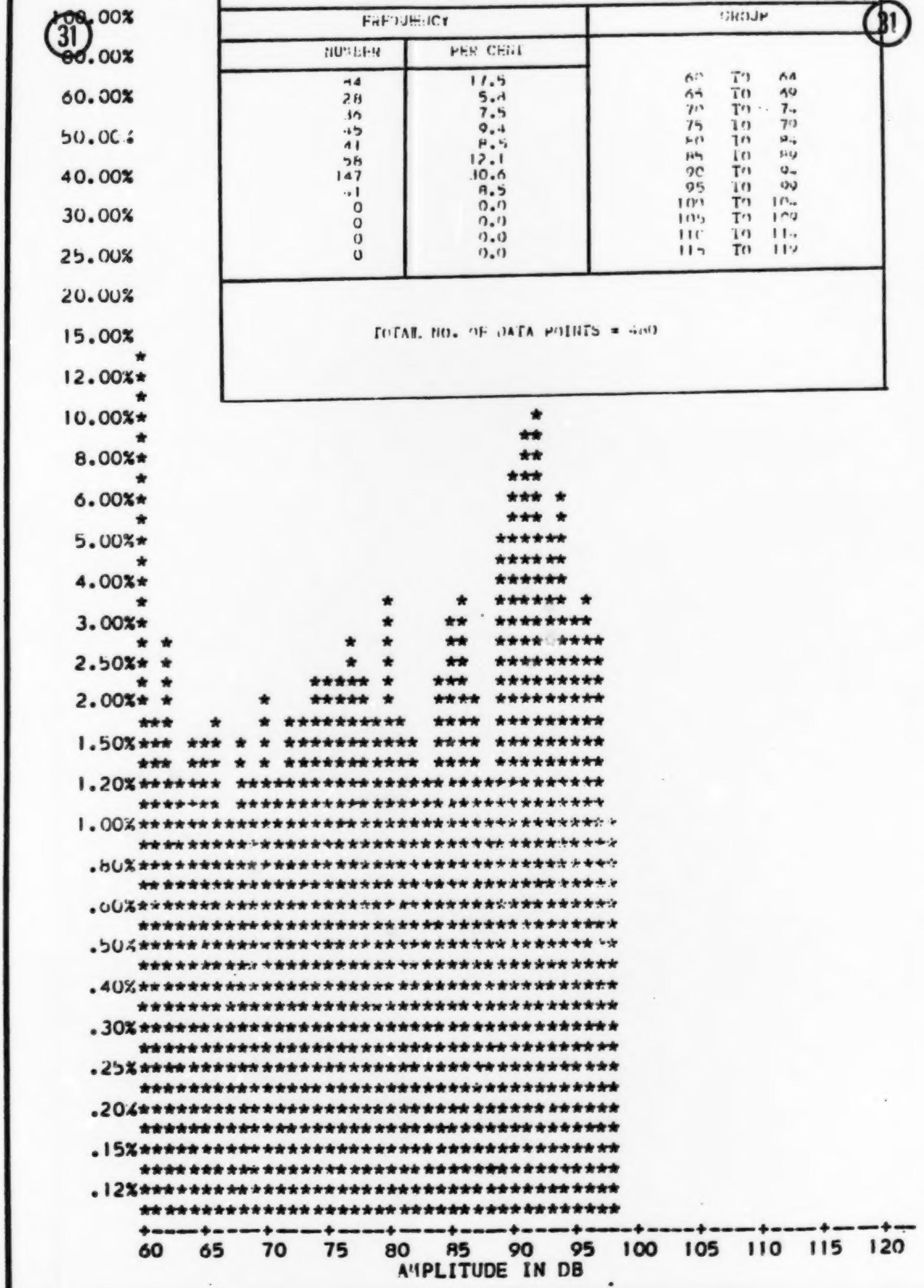
DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00351
JOB CODE : 230
USER CODE : 4621
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:23

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	%DOSE CURRENT	%DOSE CUMULATIVE
1	71.2	71.2	.923	.92
2	83.5	79.7	5.110	6.03
3	87.8	83.5	9.250	15.28
4	87.8	84.9	9.212	21.50
5	88.1	85.6	9.635	34.13
6	89.2	86.4	11.221	45.35
7	86.8	86.8	10.602	55.95
8	92.6	87.9	18.425	74.38

MIN. COMP. = 60 DB MAX. COMP. = 98 DB
ARITHMETIC MEAN = 81 DB
STD. DEVIATION = 12 DB
VARIANCE = 144 DB

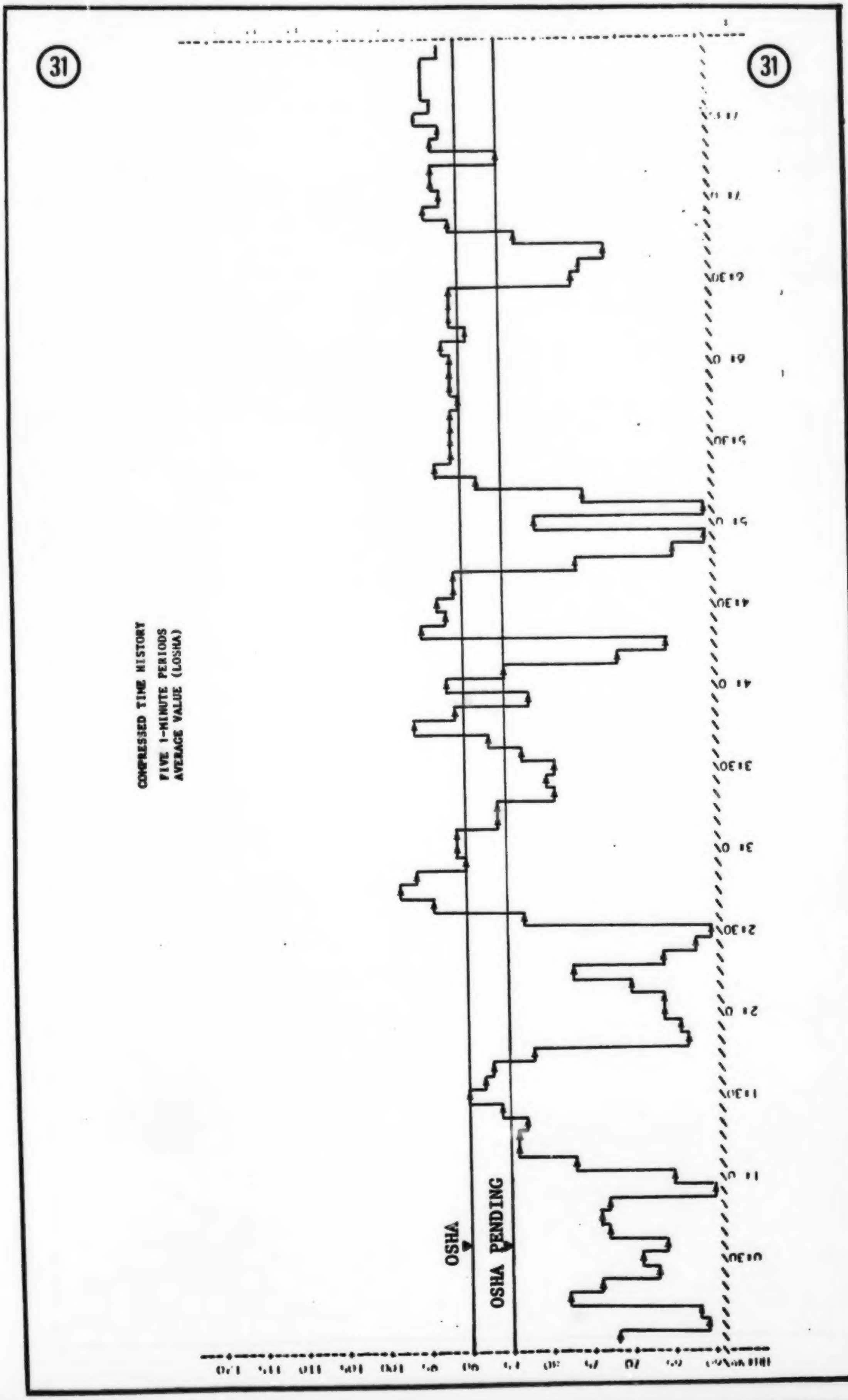


FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
84	17.5	60 TO 64
28	5.8	65 TO 69
36	7.5	70 TO 74
45	9.4	75 TO 79
41	8.5	80 TO 84
58	12.1	85 TO 89
147	30.6	90 TO 94
41	8.5	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

31


31
31
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

32

32

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

```
   1   26   80  1220    60    64     4     1
       31      115200  480
```

60	62	65	60	60	60	60	60	64	68	67	63	60	69	60	60
60	60	60	60	60	60	60	69	74	79	67	65	60	60	60	60
60	60	60	66	60	66	62	60	60	60	60	82	85	85	85	88
86	85	87	89	88	92	92	92	92	92	90	88	88	89	88	88
86	81	85	87	87	86	86	86	85	86	85	78	60	81	[illegible]	[illegible]
90	90	91	92	89	89	88	88	88	71	76	89	85	88	86	[illegible]
88	89	87	93	88	87	89	92	96	90	93	97	91	94	88	73
81	85	84	84	84	88	83	89	81	64	85	81	83	69	60	72
64	60	83	83	84	85	95	91	93	87	90	[illegible]	86	87	88	[illegible]
94	89	86	86	87	87	87	86	85	85	87	86	86	86	85	85
85	85	85	86	86	86	86	85	86	87	86	84	74	63	82	89
90	89	85	86	87	94	90	88	78	90	85	93	94	92	81	73
66	62	62	72	68	82	81	96	93	85	85	83	81	83	86	89
86	87	100	87	88	88	89	87	87	97	86	84	84	83	84	96
86	89	94	82	85	81	78	76	77	74	69	75	69	77	78	80
79	85	91	95	95	96	96	96	95	96	95	96	96	96	96	96
96	96	96	96	96	96	96	96	96	91	66	61	62	82	94	92
84	104	99	105	70	66	60	60	76	78	62	60	60	65	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	68	82	85	89	98	92	98	90	91	91	94	88
90	79	83	87	109	105	111	113	112	112	112	103	90	87	78	82
85	96	116	116	92	82	113	113	112	111	112	111	111	111	111	109
82	110	112	112	112	112	112	111	111	111	111	105	84	89	111	112
111	111	111	111	111	111	111	111	111	102	109	112	112	111	111	111
111	111	111	111	111	105	101	112	111	103	86	88	82	88	91	85
85	83	80	82	76	92	77	82	82	60	60	77	65	60	60	60
60	60	60	60	60	60	60	60	77	64	60	60	60	60	60	60
60	73	87	89	89	78	69	90	96	90	81	81	75	78	60	72
61	60	80	74	63	70	60	65	60	63	61	66	60	60	63	83
60	60	66	63	65	61	76	73	79	61	60	60	61	60	60	62

'EOF

ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 120EE
ENTER USER CODE (4 CHARS) : 4710
ENTER JOB CODE (3 CHARS) : 241

DATA LOGGED :27 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1220
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 20 SEPT 1979
SITE CODE : 120EE
JOB CODE : 241
USER CODE : 4710
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0: 7

TIME HISTORY ANALYSIS

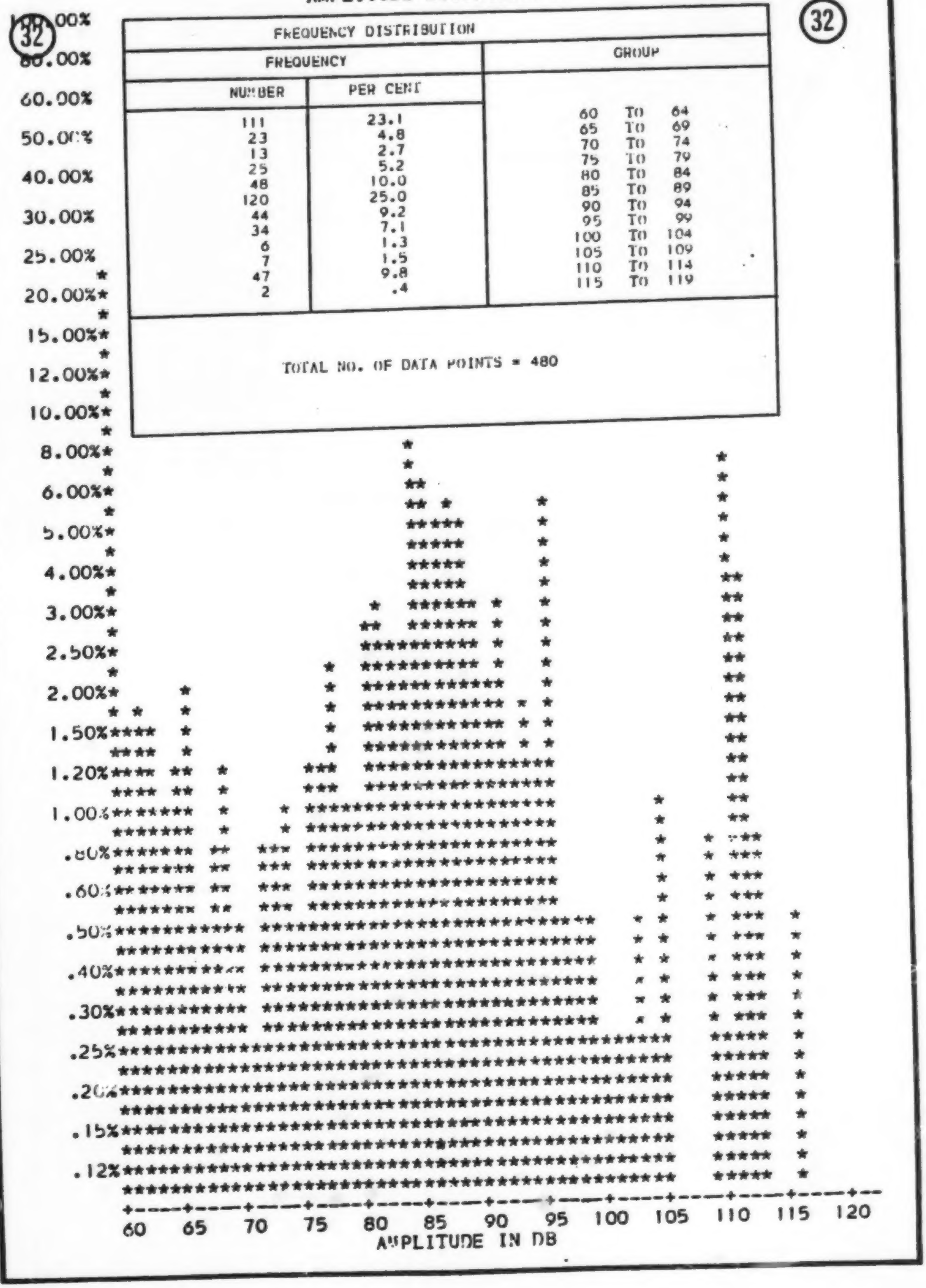
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	80.3	80.3	3.236	3.24
2	88.0	85.1	9.483	12.72
3	86.1	85.4	7.233	19.95
4	87.8	86.1	9.193	29.15
5	91.7	87.6	15.726	44.87
6	106.2	95.6	118.381	163.25
7	105.9	98.3	113.357	276.61
8	77.9	97.4	2.335	278.94

MIN. COMP. = 60 DB
MAX. COMP. = 116 DB
ARITHMETIC MEAN = 82 DB
STD. DEVIATION = 16 DB
VARIANCE =256 DB

AMPLITUDE DISTRIBUTION

(32)

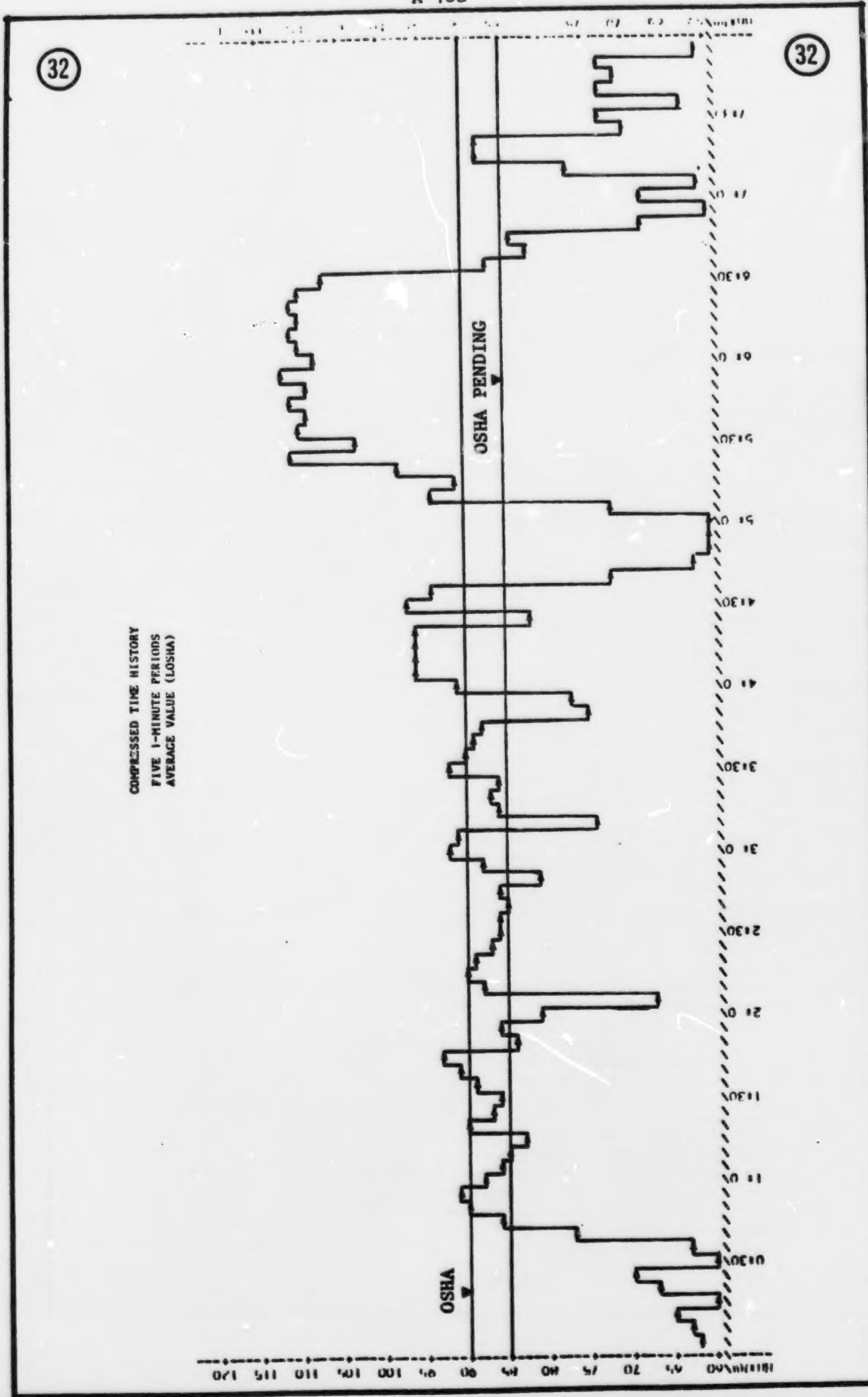


FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
111	23.1	60 TO 64
23	4.8	65 TO 69
13	2.7	70 TO 74
25	5.2	75 TO 79
48	10.0	80 TO 84
120	25.0	85 TO 89
44	9.2	90 TO 94
34	7.1	95 TO 99
6	1.3	100 TO 104
7	1.5	105 TO 109
47	9.8	110 TO 114
2	.4	115 TO 119

TOTAL NO. OF DATA POINTS = 480

A-108


32
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA PENDING
OSHA
32

(33) (33)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1218 60 64 4 1
84 115200 480

66	60	60	60	61	62	65	60	60	68	72	71	62	61	60	60
63	61	61	62	60	60	60	60	60	60	60	62	60	60	60	60
60	61	60	60	64	61	64	61	70	60	60	68	60	60	60	60
60	60	60	66	73	84	91	70	62	65	72	86	85	92	86	86
85	85	84	84	84	83	84	84	85	85	86	87	87	86	85	85
85	85	85	85	85	85	85	85	85	84	84	85	85	85	85	85
85	86	86	87	88	88	89	86	86	84	85	83	87	78	86	88
88	88	88	88	88	88	90	89	90	91	90	90	90	90	89	89
89	90	88	88	89	89	88	88	89	89	88	88	88	88	88	89
90	90	91	92	91	92	92	94	94	93	93	92	78	69	80	79
76	86	93	94	94	94	94	94	94	94	93	94	94	94	94	94
95	96	64	83	82	82	82	82	79	73	76	68	74	61	60	65
67	60	75	71	67	60	60	60	60	60	60	60	67	60	60	70
67	62	63	61	60	60	65	68	63	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	61	62	60	60	60	60	60
60	78	91	79	87	89	66	71	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	61	62
86	88	76	91	83	60	60	60	60	68	61	62	69	60	60	60
60	60	60	60	60	60	62	60	60	61	63	60	65	60	60	60
60	60	60	60	60	60	61	62	60	60	62	60	60	60	60	60
60	60	60	60	61	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	62	60
60	60	60	60	60	60	60	60	60	60	60	64	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	61	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	61	64
77	66	60	61	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	92	88	83	83	79	64	60	60	60	60

%EOF

ENTER LOG DATE (DD/MM/YR) : 25/07/79
ENTER SITE CODE (5 CHARS) : 00000

ENTER USER CODE (4 CHARS) : 7483
ENTER JOB CODE (3 CHARS) : CON

DATA LOGGED :25 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1218
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 19 SEPT 1979
SITE CODE : 00000
JOB CODE : CON
USER CODE : 7483
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:21

TIME HISTORY ANALYSIS

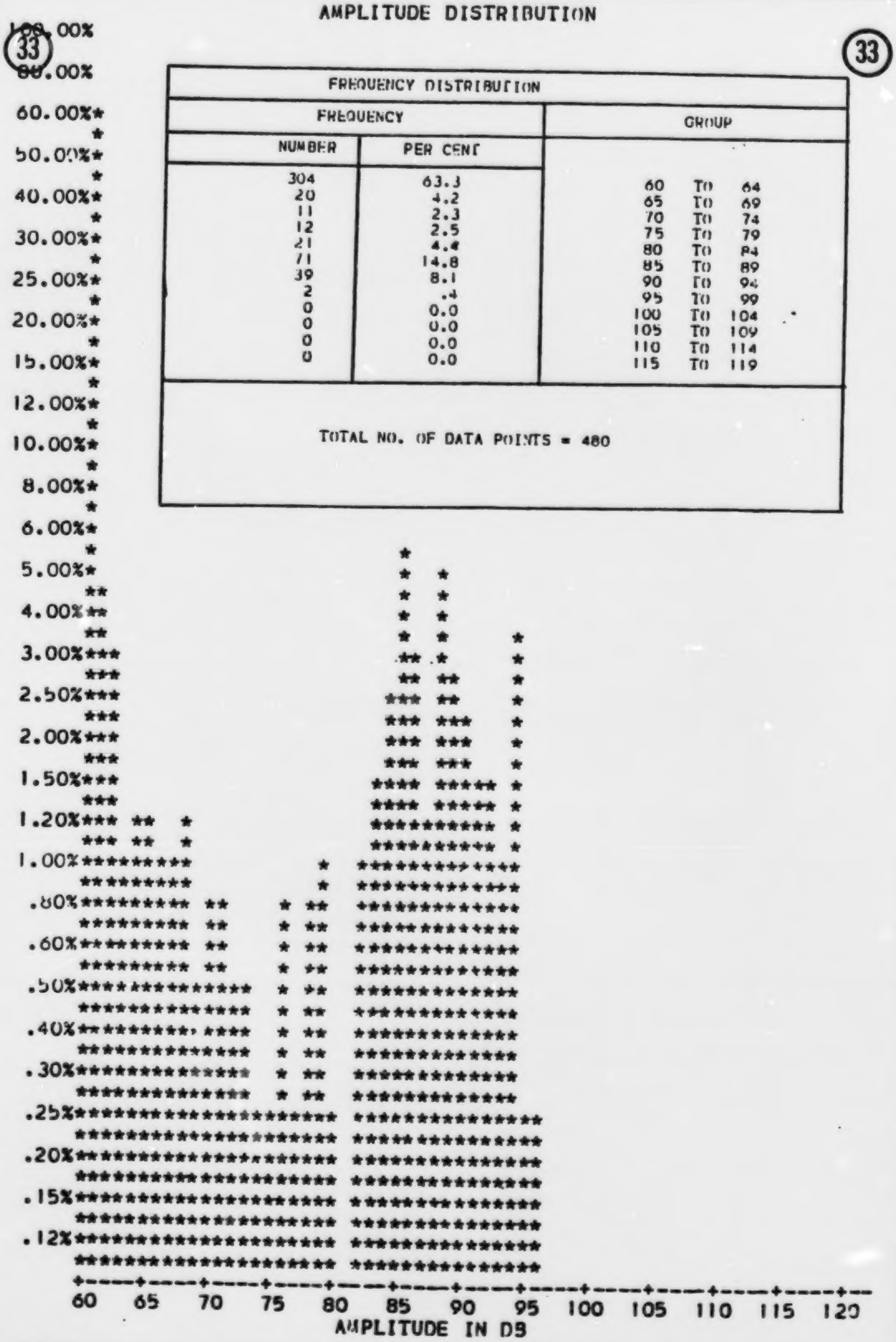
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	%DOSE CURRENT	%DOSE CUMULATIVE
1	69.7	69.7	.754	.75
2	86.0	81.8	7.212	7.97
3	90.8	86.2	14.060	22.03
4	68.7	84.3	.650	22.68
5	74.5	83.1	1.457	24.14
6	60.6	81.9	.213	24.35
7	60.1	80.8	.199	24.55
8	70.7	80.1	.856	25.41

MIN. COMP. = 60 DB
MAX. COMP. = 96 DB
ARITHMETIC MEAN = 68 DB
STD. DEVIATION = 12 DB
VARIANCE =144 DB

AMPLITUDE DISTRIBUTION

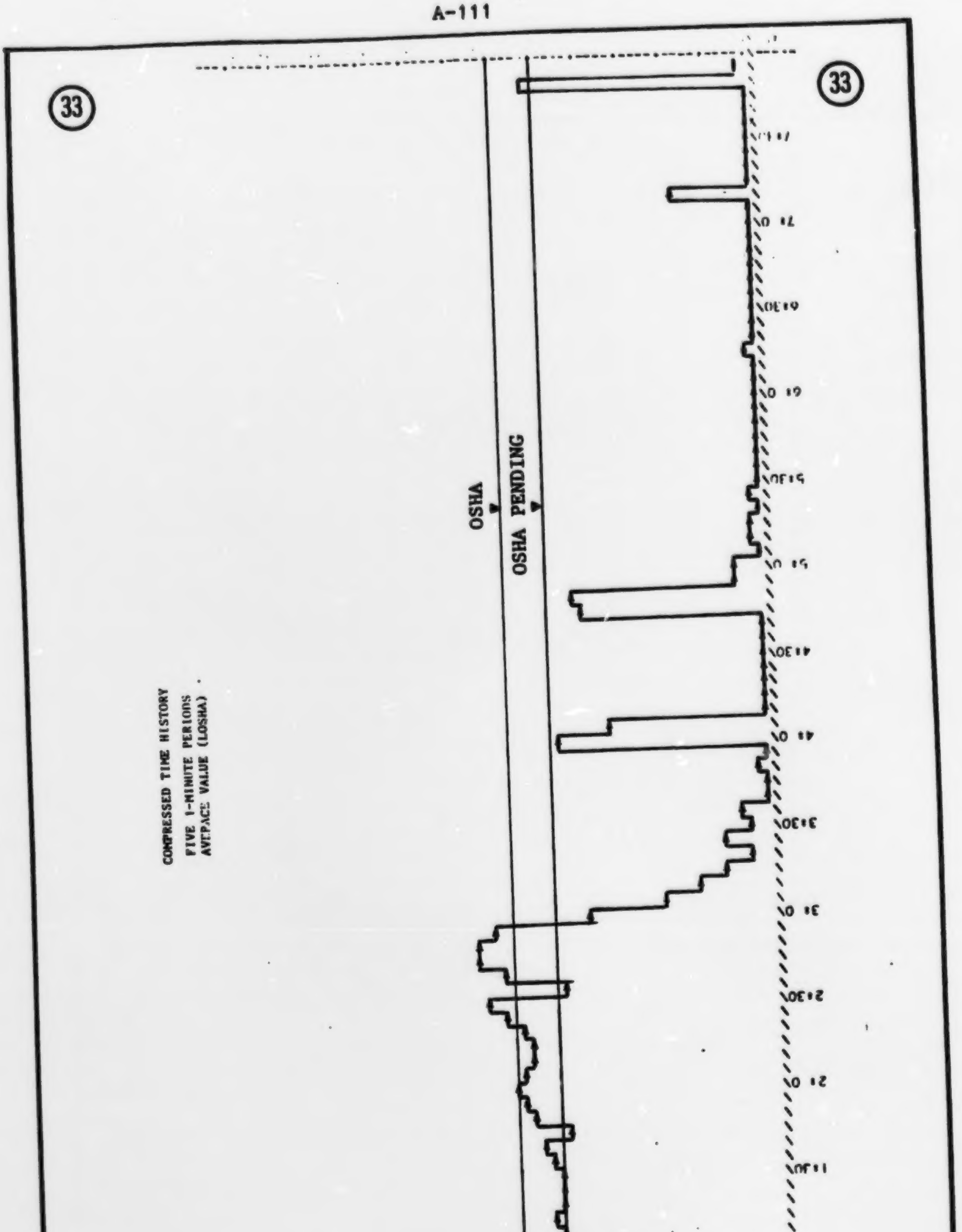
(33)



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
304	63.3	60 TO 64
20	4.2	65 TO 69
11	2.3	70 TO 74
12	2.5	75 TO 79
21	4.4	80 TO 84
71	14.8	85 TO 89
39	8.1	90 TO 94
2	.4	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



33
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1: 0
1:30
2: 0
2:30
3: 0
3:30
4: 0
4:30
5:30
6: 0
7: 0
60
70
75
80
90
95
100
105
110
115
120
33

(34)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

1 26 80 1217 60 64 4 1

63 115200 480

60	60	60	60	60	60	60	60	60	67	60	60	70	74	78	67
71	68	63	63	82	83	62	72	75	77	75	80	77	84	88	80
80	76	78	82	89	92	95	90	92	94	91	92	94	99	97	90
93	95	98	94	95	95	95	95	91	97	98	93	96	97	97	91
70	60	61	61	60	63	60	60	62	65	60	60	60	60	62	64
60	72	67	61	60	66	65	60	60	75	71	69	70	75	71	72
71	76	71	71	72	70	73	75	71	64	72	70	73	68	71	60
76	60	75	60	60	66	85	77	60	60	76	75	65	70	81	78
78	66	67	65	72	73	66	74	91	90	86	60	60	61	60	64
91	112	110	105	99	94	77	60	65	71	92	95	81	60	62	94
95	95	111	111	60	90	98	92	[illegible]	87	87	85	84	84	84	83
83	83	81	81	81	79	78	67	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	61	60
60	60	60	60	60	60	62	69	60	61	60	60	77	63	61	67
67	68	67	63	67	60	60	62	65	69	82	81	62	82	85	87
85	84	90	91	91	92	93	94	88	62	60	68	70	62	60	67
60	67	60	62	60	61	62	60	65	64	65	62	63	62	60	72
60	60	61	60	67	74	68	72	67	61	70	67	77	66	63	74
82	68	71	73	78	82	82	80	78	78	74	81	63	77	82	79
79	76	80	81	83	81	78	79	73	76	62	81	80	81	83	81
81	84	83	82	84	85	83	83	81	81	81	81	81	68	76	80
80	79	78	75	80	73	80	82	81	80	83	77	69	81	81	83
77	82	81	80	78	75	81	82	83	81	82	81	81	79	80	66
79	82	82	83	70	64	77	76	86	87	79	74	60	65	60	60
62	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	71	61	61	61	60	67	65	74	68	61	60	69	66	60	60
60	62	60	60	60	60	60	60	60	60	68	86	87	84	93	94
91	95	91	91	98	92	96	93	93	78	66	60	61	61	61	60

%EOF

ENTER LOG DATE (DD/MM/YR) : 16/08/79
ENTER SITE CODE (5 CHARS) : 00000

ENTER USER CODE (4 CHARS) : 4222

ENTER JOB CODE (3 CHARS) : CBO

DATA LOGGED :16 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1217
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : 00000
JOB CODE : CBO
USER CODE : 4222
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:15

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

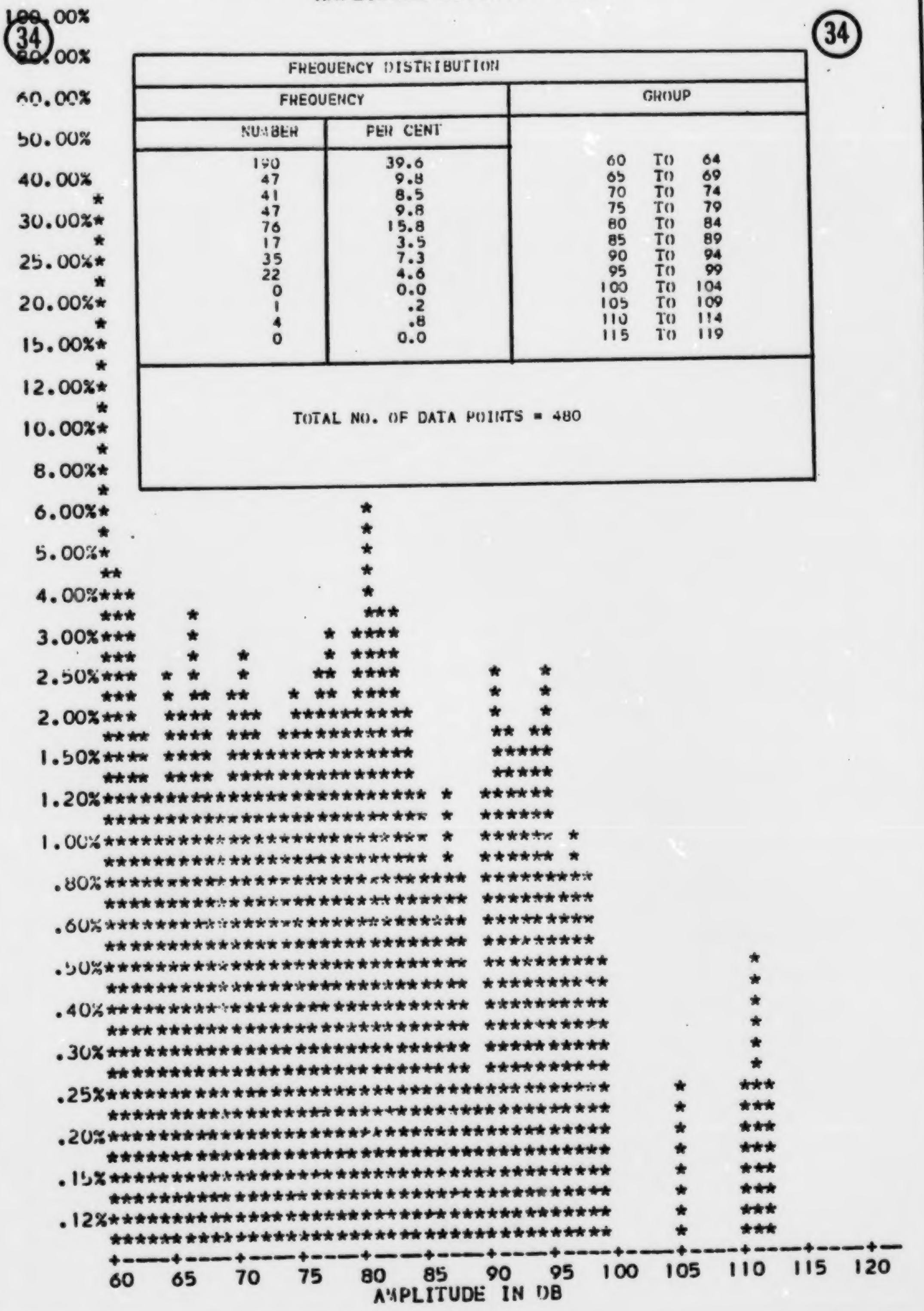
TIME	LOSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIV
1	88.4	88.4	10.052	10.05
2	78.5	85.0	2.531	12.58
3	94.6	89.7	23.578	36.16
4	64.9	87.7	.394	36.55
5	79.1	86.7	2.744	39.29
6	79.6	85.9	2.973	42.26
7	76.9	85.1	2.029	44.29
8	82.5	84.8	4.437	48.73

MIN. COMP. = 60 DB
MAX. COMP. = 112 DB
ARITHMETIC MEAN = 72 DB
STD. DEVIATION = 12 DB
VARIANCE =144 DB

(34)

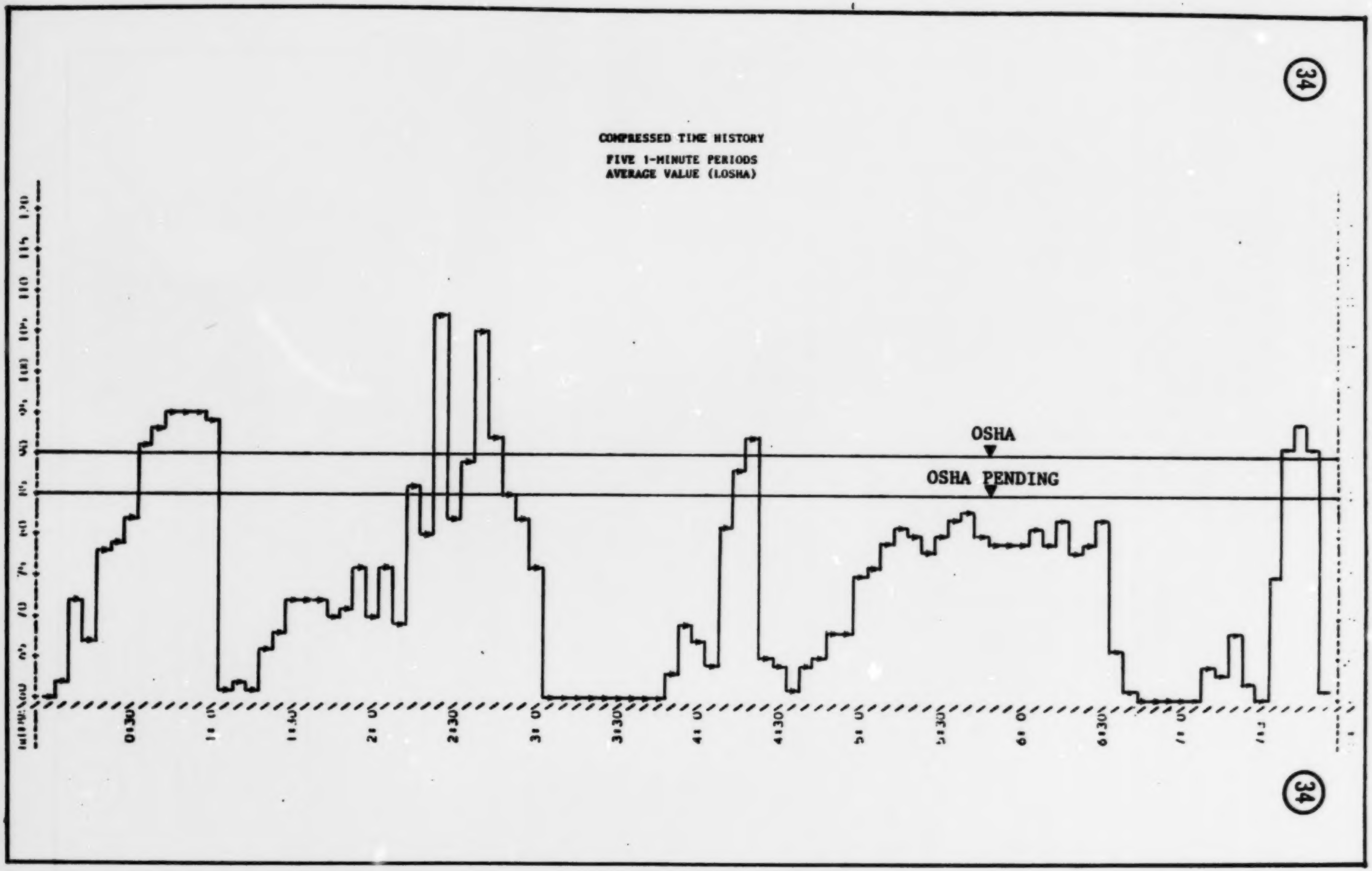
AMPLITUDE DISTRIBUTION

(34)



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
190	39.6	60 TO 64
47	9.8	65 TO 69
41	8.5	70 TO 74
47	9.8	75 TO 79
76	15.8	80 TO 84
17	3.5	85 TO 89
35	7.3	90 TO 94
22	4.6	95 TO 99
0	0.0	100 TO 104
1	.2	105 TO 109
4	.8	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


34
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
3:30
4:30
6:30
34

(35) (35)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1213 60 64 4 1

24 115200 480

60	60	60	61	73	63	64	64	60	61	60	61	61	60	62	60
60	60	63	60	60	60	60	60	66	69	62	64	84	65	64	66
80	69	60	60	75	60	74	72	76	79	71	60	64	60	62	60
60	64	63	63	66	63	60	75	71	60	63	71	70	78	81	68
62	64	60	62	60	60	60	60	60	60	60	60	59	71	60	60
60	60	60	60	60	70	69	62	60	60	60	60	60	60	60	60
60	60	60	62	60	60	66	60	60	60	60	60	63	60	60	60
60	60	60	72	78	60	60	90	82	63	60	64	67	63	60	60
61	60	60	60	90	87	86	86	88	61	60	60	60	65	60	60
60	60	60	60	60	60	60	93	91	86	86	86	87	88	86	60
79	60	60	60	60	78	74	67	65	84	79	88	86	87	91	91
85	60	71	60	85	74	60	67	60	60	60	60	79	60	63	65
61	75	60	60	61	61	65	60	62	68	61	68	60	60	60	60
60	60	60	60	64	88	60	60	60	60	60	60	83	84	85	84
83	83	66	76	74	70	66	64	77	67	63	80	94	62	78	60
60	71	70	62	69	72	66	69	67	60	60	62	61	63	60	73
63	62	70	63	62	62	67	73	64	64	60	60	63	60	65	68
67	69	60	60	63	66	68	60	61	68	63	62	60	60	60	60
60	60	60	65	63	66	68	78	67	76	74	61	79	60	60	62
75	79	71	69	92	95	92	88	71	62	60	60	60	61	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	61	62	60	67	63	71	67	65	61	92	91	87	93
76	90	72	89	60	60	60	60	62	60	62	60	66	60	62	60
60	60	60	60	60	60	60	60	60	62	63	61	60	60	70	82
89	90	87	75	65	60	60	60	60	60	60	62	75	60	60	60
60	65	60	62	60	60	60	60	60	60	60	60	60	60	61	64
60	60	65	64	77	66	68	66	66	62	60	60	60	62	63	68
71	78	60	72	90	75	64	92	99	99	101	100	88	89	86	83
83	96	91	69	80	80	75	83	71	61	63	82	95	93	95	73
64	64	61	63	61	60	64	63	60	62	61	60	60	60	60	68

%EOF

ENTER LOG DATE (DD/MM/YR) : 16/08/79
ENTER SITE CODE (5 CHARS) : 00000
ENTER USER CODE (4 CHARS) : 4077
ENTER JOB CODE (3 CHARS) : CBO

DATA LOGGED :16 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1213
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

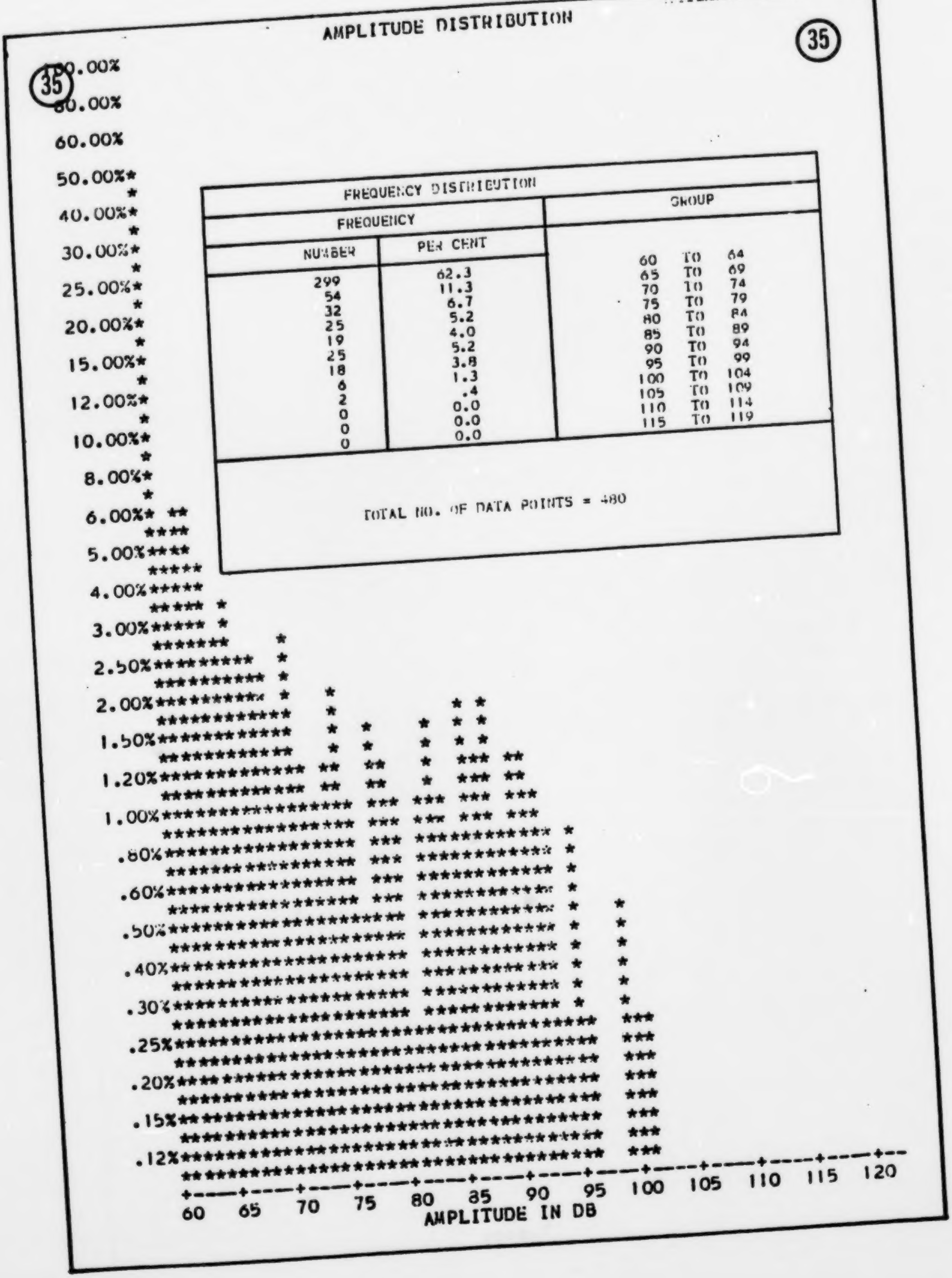
DATA ANALYZED : 21 SEPT 1979
SITE CODE : 00000
JOB CODE : CBO
USER CODE : 4077
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0: 6

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	67.6	67.6	.560	.56
2	69.0	68.3	.678	1.24
3	81.0	75.2	3.570	4.81
4	75.3	75.2	1.620	6.43
5	66.4	74.1	.471	6.90
6	79.3	75.3	2.855	9.76
7	70.7	74.8	.861	10.62
8	85.6	77.4	6.819	17.44

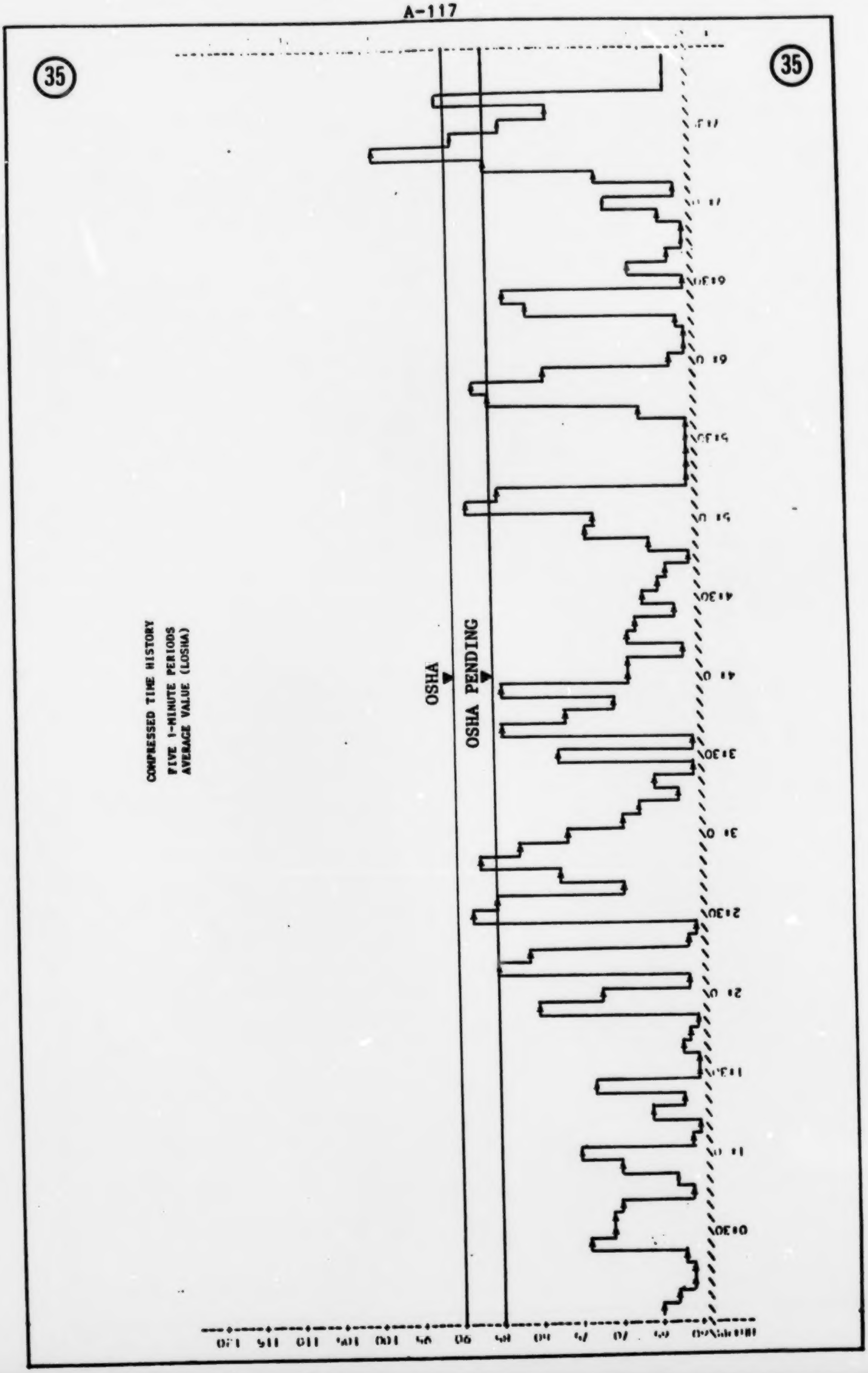
MIN. COMP. = 60 DB
MAX. COMP. = 101 DB
ARITHMETIC MEAN = 66 DB
STD. DEVIATION = 10 DB
VARIANCE =100 DB



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
299	62.3	60 TO 64
54	11.3	65 TO 69
32	6.7	70 TO 74
25	5.2	75 TO 79
19	4.0	80 TO 84
25	5.2	85 TO 89
18	3.8	90 TO 94
6	1.3	95 TO 99
2	.4	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


35
35
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

36

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1226 60 64 4 1

96 115200 480

60	63	64	60	60	60	60	60	60	60	60	60	60	68	62	60
60	68	60	65	60	60	60	62	60	60	60	69	63	60	63	82
72	73	80	81	91	95	65	65	72	89	85	83	60	70	71	60
63	60	61	62	62	62	64	63	60	64	83	84	82	63	71	72
73	79	75	63	71	75	67	64	73	67	60	78	70	73	63	72
72	68	67	77	64	72	68	77	76	53	61	74	70	67	[illegible]	84
60	87	89	83	[illegible]	92	90	85	78	42	57	[illegible]	[illegible]	75	79	78
83	80	76	76	73	44	61	71	76	93	99	[illegible]	76	84	[illegible]	81
84	82	86	86	84	85	85	87	78	79	78	84	79	76	84	83
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	81	[illegible]	91	91	[illegible]	90	92	71	[illegible]	[illegible]	[illegible]
63	89	91	90	87	89	65	69	86	67	78	73	70	33	69	73
67	88	99	94	85	91	65	85	92	87	88	91	96	93	91	86
79	79	84	72	71	76	67	65	37	79	79	75	[illegible]	81	85	77
62	85	75	69	63	83	88	87	85	85	69	96	97	90	87	77
90	89	90	95	93	93	84	88	97	93	93	95	82	93	92	90
96	97	94	98	92	98	93	69	80	91	75	72	60	61	62	62
69	68	71	65	60	69	61	60	65	68	62	65	64	60	60	60
61	65	71	62	70	60	63	61	67	68	61	63	66	62	64	60
60	60	60	60	61	61	68	65	68	71	81	91	89	78	84	94
62	68	60	66	75	62	88	87	92	96	92	89	77	70	64	60
60	60	60	60	60	60	69	60	65	60	60	60	50	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	75	78	61	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	64
60	60	60	60	60	61	64	72	71	70	66	68	69	77	66	68
71	84	76	74	69	76	95	93	102	80	78	66	68	60	62	80
82	73	72	80	68	61	60	77	65	64	60	76	60	60	66	68
67	77	73	60	62	60	78	91	60	69	97	98	95	103	99	93
89	83	87	84	97	96	92	99	99	87	71	70	60	68	'74	78
65	74	69	60	62	63	60	60	60	65	60	62	64	63	66	61

%EOF

36

ENTER LOG DATE (DD/MM/YR) : 16/08/79
ENTER SITE CODE (5 CHARS) : 00000
ENTER USER CODE (4 CHARS) : 7919
ENTER JOB CODE (3 CHARS) : CBO

DATA LOGGED :16 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1226
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : 00000
JOB CODE : CBO
USER CODE : 7919
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:24

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	75.4	75.4	1.652	1.65
2	79.6	77.8	2.957	4.61
3	[illegible].6	82.0	7.793	12.40
4	88.6	84.3	10.303	22.70
5	82.1	83.9	4.176	26.88
6	78.4	83.2	2.497	29.38
7	78.8	82.7	2.649	32.03
8	86.8	83.4	7.972	40.00

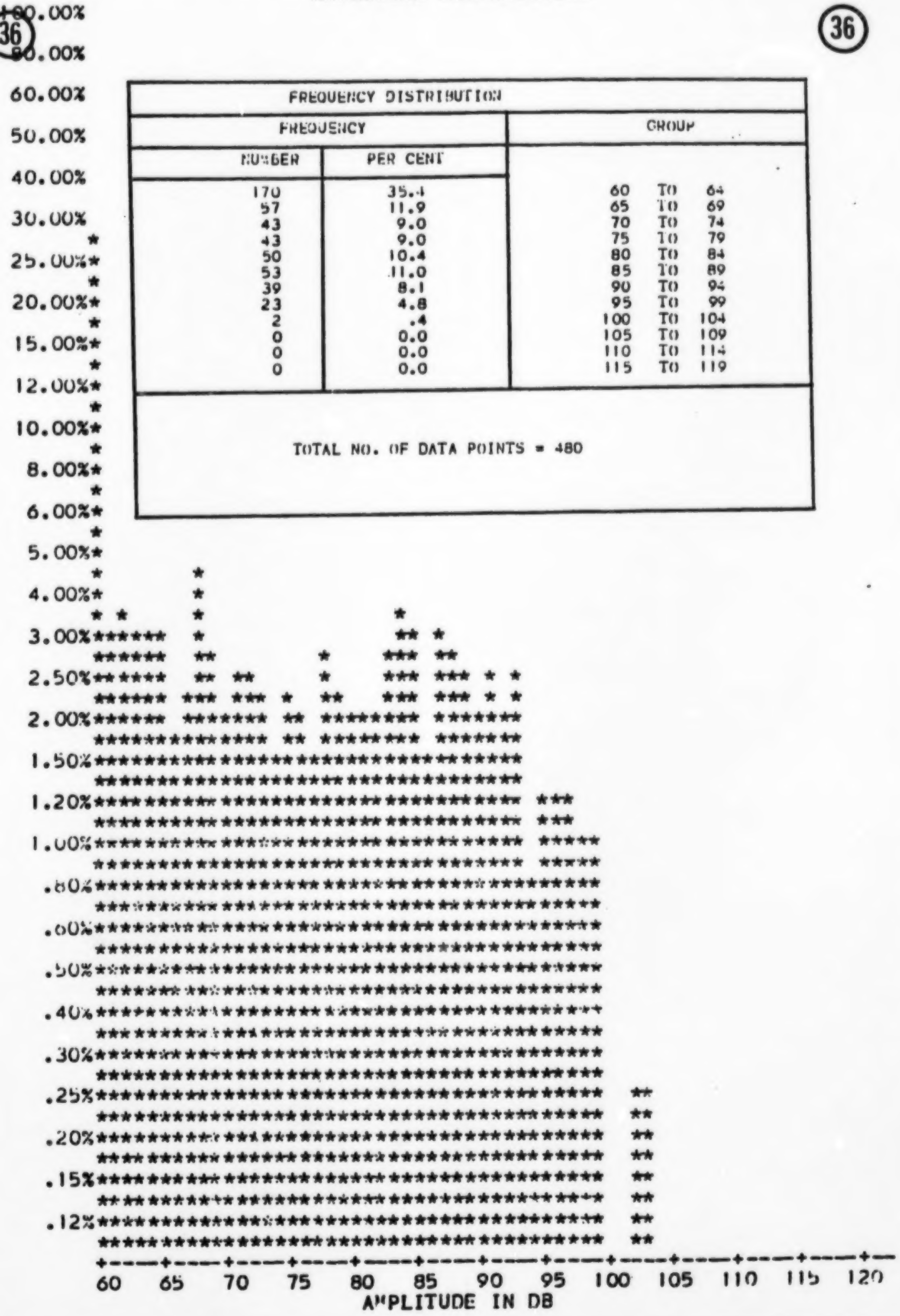
MIN. COMP. = 60 DB
MAX. COMP. = 103 DB
ARITHMETIC MEAN = 73 DB
STD. DEVIATION = 12 DB
VARIANCE =144 DB

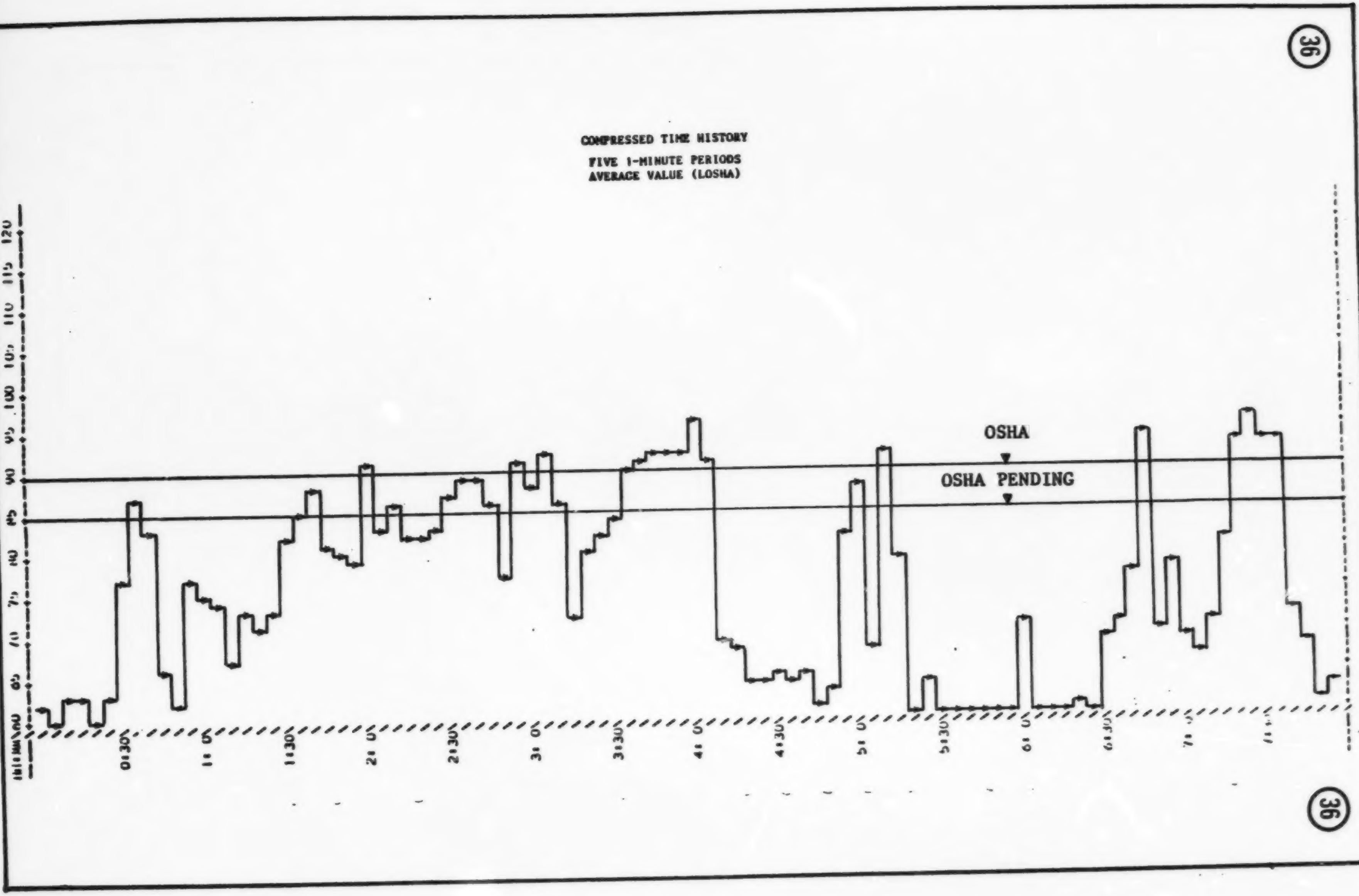
AMPLITUDE DISTRIBUTION

(36)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
170	35.4	60 TO 64
57	11.9	65 TO 69
43	9.0	70 TO 74
43	9.0	75 TO 79
50	10.4	80 TO 84
53	11.0	85 TO 89
39	8.1	90 TO 94
23	4.8	95 TO 99
2	.4	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




36
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:30
3:30
4:30
5:30
36

(37) (37)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1220 60 64 4 1

129 115200 480

61	60	60	60	60	60	60	65	61	60	60	60	67	60	65	60
67	60	64	61	62	60	65	60	65	64	61	61	60	64	66	74
71	67	60	60	60	61	60	61	60	61	78	71	76	71	73	71
66	65	77	67	74	75	84	76	79	72	70	71	87	64	67	62
60	60	60	62	66	65	70	82	69	79	77	80	69	60	60	70
64	64	60	73	79	69	76	79	82	82	75	79	75	70	69	[illegible]
72	71	72	84	76	77	72	65	60	68	65	70	76	69	63	[illegible]
60	60	60	60	60	64	70	68	68	85	80	84	74	60	60	60
60	60	69	88	86	80	82	88	99	98	87	86	88	86	93	84
69	93	75	78	73	75	77	71	77	80	82	84	90	81	79	[illegible]
68	79	72	60	62	60	72	71	60	60	60	60	72	68	60	60
60	77	90	61	60	60	60	62	65	70	75	78	71	66	60	60
60	66	72	67	62	60	70	73	74	76	63	72	63	63	66	[illegible]
92	85	66	77	76	77	62	60	61	72	73	78	60	50	60	60
60	60	60	65	60	63	65	89	90	89	92	88	85	86	89	90
86	86	86	88	90	91	70	60	67	76	64	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	61
60	60	60	60	60	60	60	60	64	60	60	60	60	64	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	65	67	62	83	72	61	60	70	62	63	60	73	60	60	75
78	60	60	60	60	60	60	60	60	60	60	60	60	60	61	60
60	60	60	60	60	60	60	92	91	89	88	69	60	60	93	60
63	60	71	60	60	60	60	72	80	68	60	60	60	60	69	81
60	60	60	84	77	60	60	60	78	61	60	60	60	66	60	60
60	60	60	61	60	72	89	88	70	85	73	60	60	70	68	72
71	60	61	62	68	65	60	60	60	77	70	69	60	60	60	67
60	67	70	60	60	60	67	72	80	60	62	74	90	87	87	84
83	84	81	76	66	65	72	83	90	96	98	96	97	99	92	72

%EOF

ENTER LOG DATE (MD/MM/YR) : 24/08/79
ENTER SITE CODE (5 CHARS) : 00000
ENTER USER CODE (4 CHARS) : 0816
ENTER JOB CODE (3 CHARS) : 132

DATA LOGGED :24 AUG 1979
LOGGER : DE-501/26
SERIAL NUMBER : 1220
BASELINE : [illegible]
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 00000
JOB CODE : 132
USER CODE : 0816
THRESHOL : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible]
EXCHANGE (HALVING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOG AV CURRENT	LOG AV CUMULATIVE	NEI CURRENT	NEI CUMULATIVE
1	68.9	68.9	.674	.67
2	73.6	71.6	1.280	1.96
3	83.6	7[illegible].0	5.120	7.06
4	78.7	7[illegible].2	2.593	9.66
5	73.2	77.4	1.223	10.90
6	65.0	76.3	.388	11.29
7	75.2	7[illegible].2	1.615	12.90
8	83.6	77.6	5.123	1[illegible].02

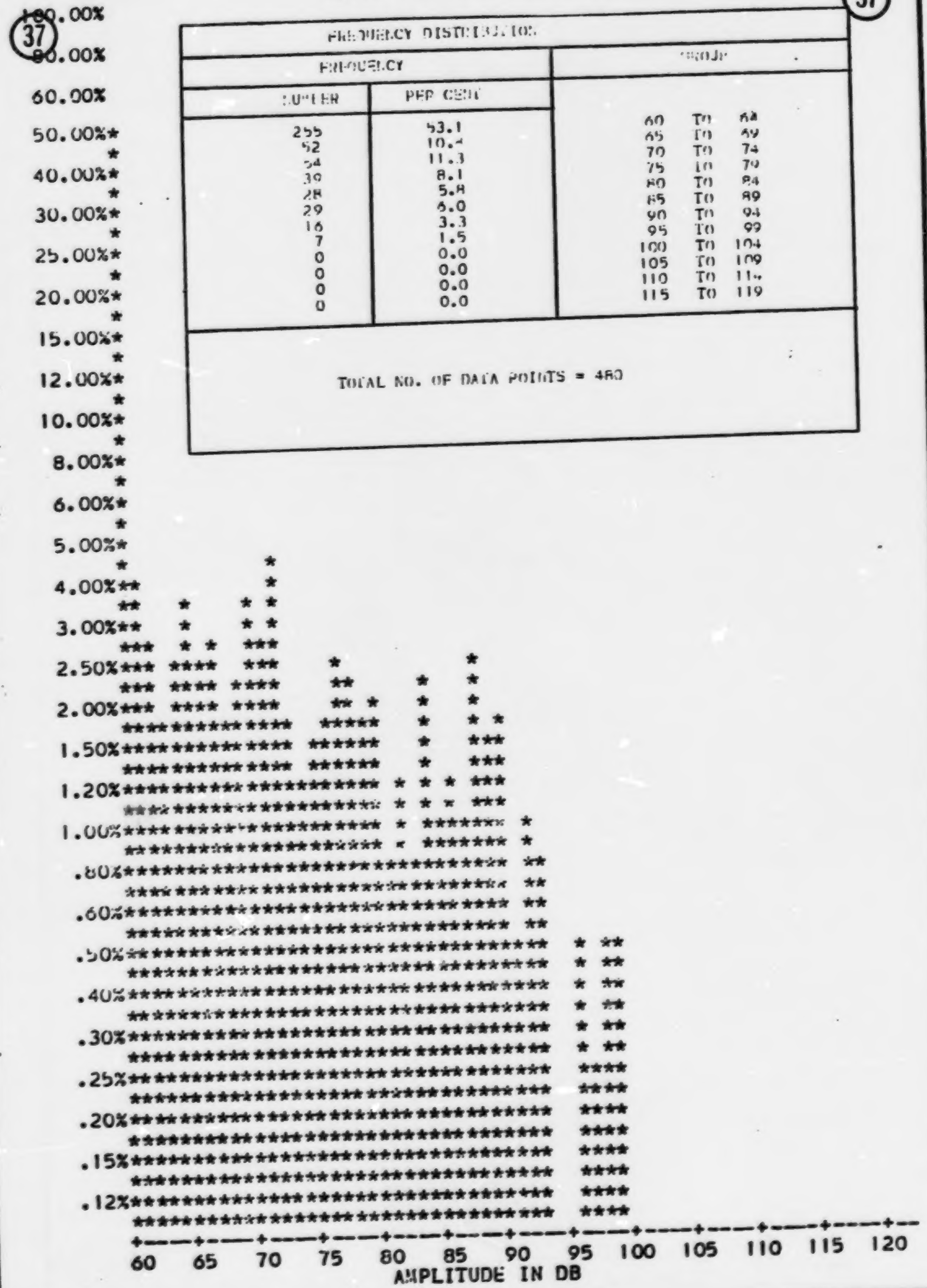
MIN. COMP. = 60 DB
MAX. COMP. = 99 DB
ARITHMETIC MEAN = 66 DB
STD. DEVIATION = 10 [illegible]
VARIANCE =[illegible] DB

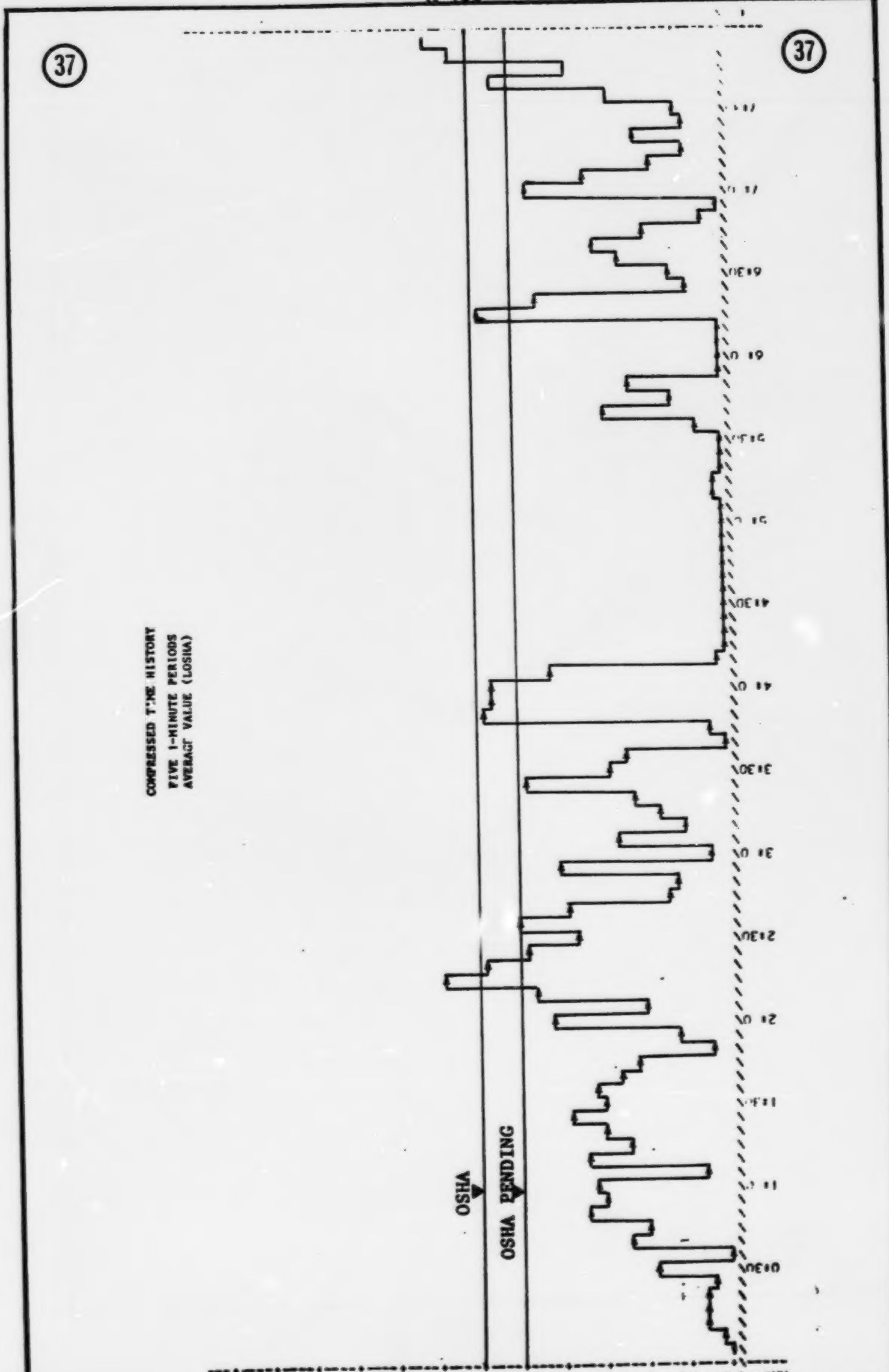
AMPLITUDE DISTRIBUTION

37

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
255	53.1	60 TO 64
52	10.4	65 TO 69
54	11.3	70 TO 74
39	8.1	75 TO 79
28	5.8	80 TO 84
29	6.0	85 TO 89
16	3.3	90 TO 94
7	1.5	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




37
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
37

(38) (38)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1226 60 64 4 1
90 . 303/4 126

103	99	99	101	104	102	102	103	103	99	97	101	103	102	103	102
104	[illegible]	105	103	104	105	103	102	104	105	[illegible]	91	74	61	61	[illegible]
[illegible]	72	65	65	69	76	65	61	65	61	60	64	66	60	64	[illegible]
67	67	77	80	74	82	91	90	91	[illegible]	64	66	[illegible]	[illegible]	76	[illegible]
60	61	60	60	60	61	60	60	60	60	60	60	60	60	60	60
62	60	60	60	60	60	60	60	61	60	62	62	[illegible]	[illegible]	[illegible]	[illegible]
60	60	60	60	63	60	60	61	69	60	60	60	60	61	60	60
60	60	60	60	60	60	60	60	60	60	60	60	62	61	60	60
61	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	[illegible]	60	60	60	60	60	60	60	60	60	60	60	60	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

%EOF

ENTER LOG DATE (DD/MM/YR) : 13/09/79

ENTER SITE CODE (5 CHARS) : 12950
ENTER USER CODE (4 CHARS) : 4375

DATA LOGGED [illegible] 1979
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

DATA ANALYZED : [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
TOTAL SAMPLES = [illegible]
[illegible]

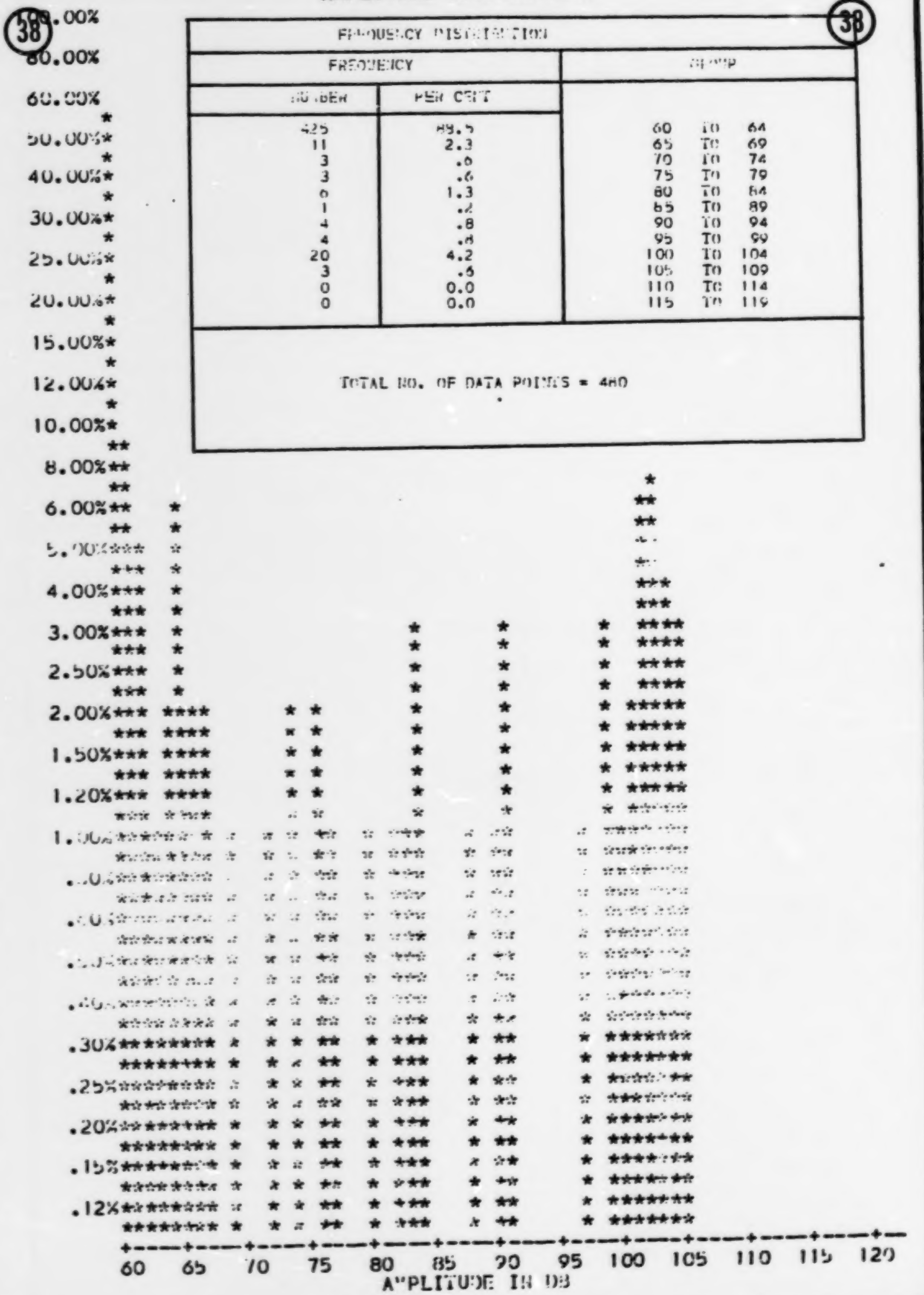
[illegible]

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible]
[illegible]
[illegible]
[illegible]
PERIOD = [illegible]

[illegible]	LOG MA		[illegible]	
[illegible]	[illegible]	CUMULATIVE	CURRENT	CUMULATIVE
1	97.1	97.1	33.336	[illegible]
2	[illegible]	[illegible]	.403	[illegible]
3	[illegible]	[illegible]	.021	[illegible]

MIN. COMP. = [illegible]
MAX. COMP. = 105 [illegible]
ARITHMETIC MEAN = 72 DB
STD. DEVIATION = 17 DB
[illegible]

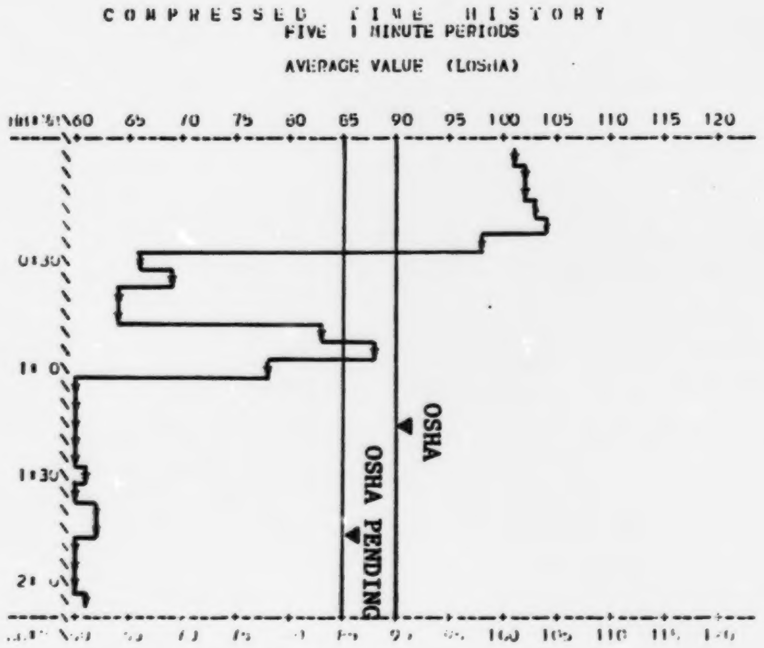
AMPLITUDE DISTRIBUTION



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
425	88.5	60 TO 64
11	2.3	65 TO 69
3	.6	70 TO 74
3	.6	75 TO 79
6	1.3	80 TO 84
1	.2	85 TO 89
4	.8	90 TO 94
4	.8	95 TO 99
20	4.2	100 TO 104
3	.6	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(38) (38)


COMPRESSED TIME HISTORY
FIVE 1 MINUTE PERIODS
AVERAGE VALUE (LOSHA)
60 65 70 75 80 85 90 95 100 105 110 115 120
0:30
1:0
1:30
2:0
OSHA
OSHA PENDING

39

39

```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
 1  26  80  1216   60   64   4   1
  6998   115200  480
```

70	60	67	60	71	68	60	71	70	67	67	72	67	67	68	63
73	70	60	64	70	72	69	71	75	65	68	64	66	72	69	70
74	71	66	71	65	75	62	71	71	76	91	92	91	87	95	93
93	92	92	92	92	92	93	93	94	81	81	60	74	91	95	93
[illegible]	[illegible]	60	61	63	60	[illegible]	[illegible]	[illegible]	[illegible]	74	79	[illegible]	[illegible]	71	73
73	62	[illegible]	70	63	73	61	67	68	64	70	67	[illegible]	67	73	76
81	75	79	73	72	76	69	75	[illegible]	[illegible]	69	72	61	[illegible]	79	77
67	72	77	81	68	62	62	60	80	64	69	66	60	60	63	60
[illegible]	[illegible]	[illegible]	80	[illegible]	81	67	77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	67	67	70
60	74	71	61	80	92	96	86	82	85	86	86	86	86	85	86
86	87	85	95	102	102	102	102	102	103	101	101	103	103	96	96
97	96	97	99	97	98	99	100	103	103	106	96	95	[illegible]	99	94
102	105	105	106	107	105	107	105	104	100	105	107	99	97	98	96
99	98	99	99	99	99	102	102	103	101	102	102	103	102	101	101
104	102	103	104	103	103	104	104	103	101	106	105	102	102	99	100
100	96	95	96	101	100	101	100	99	97	91	91	94	93	92	104
105	104	104	103	103	104	101	104	104	103	103	100	101	101	100	100
100	100	101	102	100	102	100	99	103	99	100	97	101	99	99	97
92	85	83	87	97	99	90	86	85	86	86	86	85	86	87	96
102	102	103	101	97	99	101	101	103	103	103	104	99	91	87	87
88	88	90	99	100	100	98	87	94	95	106	106	105	103	100	97
103	105	104	91	85	91	104	101	99	104	105	105	105	102	103	101
101	105	104	104	104	105	104	101	101	101	99	100	97	97	98	98
99	100	99	98	98	98	93	86	94	93	88	92	100	101	98	98
101	105	103	101	100	99	101	103	103	103	102	100	99	96	93	89
102	100	99	99	101	101	102	101	102	102	101	100	94	90	89	89
85	82	81	81	82	83	87	99	102	104	102	103	106	107	107	105
107	104	106	105	107	106	106	106	106	100	97	99	91	84	96	103
102	103	104	104	105	104	102	102	98	88	89	86	89	87	87	90
85	65	70	60	60	60	78	94	66	64	80	90	90	65	62	76

```
ENTER LOG DATE (DD/MM/YR) : 11/07/79
ENTER SITE CODE (5 CHARS) : [illegible]
ENTER USER CODE (4 CHARS) : 0560
 ENTER JOB CODE (3 CHARS) : 067
```

```
   DATA LOGGED : 11 JULY 1979            DATA ANALYZED : 12 SEPT 1979
        LOCATION : [illegible]               SITE CODE : [illegible]
 SERIAL [illegible] : [illegible]             JOB CODE : [illegible]
      [illegible] : [illegible]              [illegible] : [illegible]
 [illegible] : [illegible]                  [illegible] : [illegible]
 SAMPLING RATE : [illegible]            TOTAL SAMPLES = [illegible]
 [illegible] = [illegible]              [illegible] = [illegible]
```

TIME HISTORY ANALYSIS

```
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

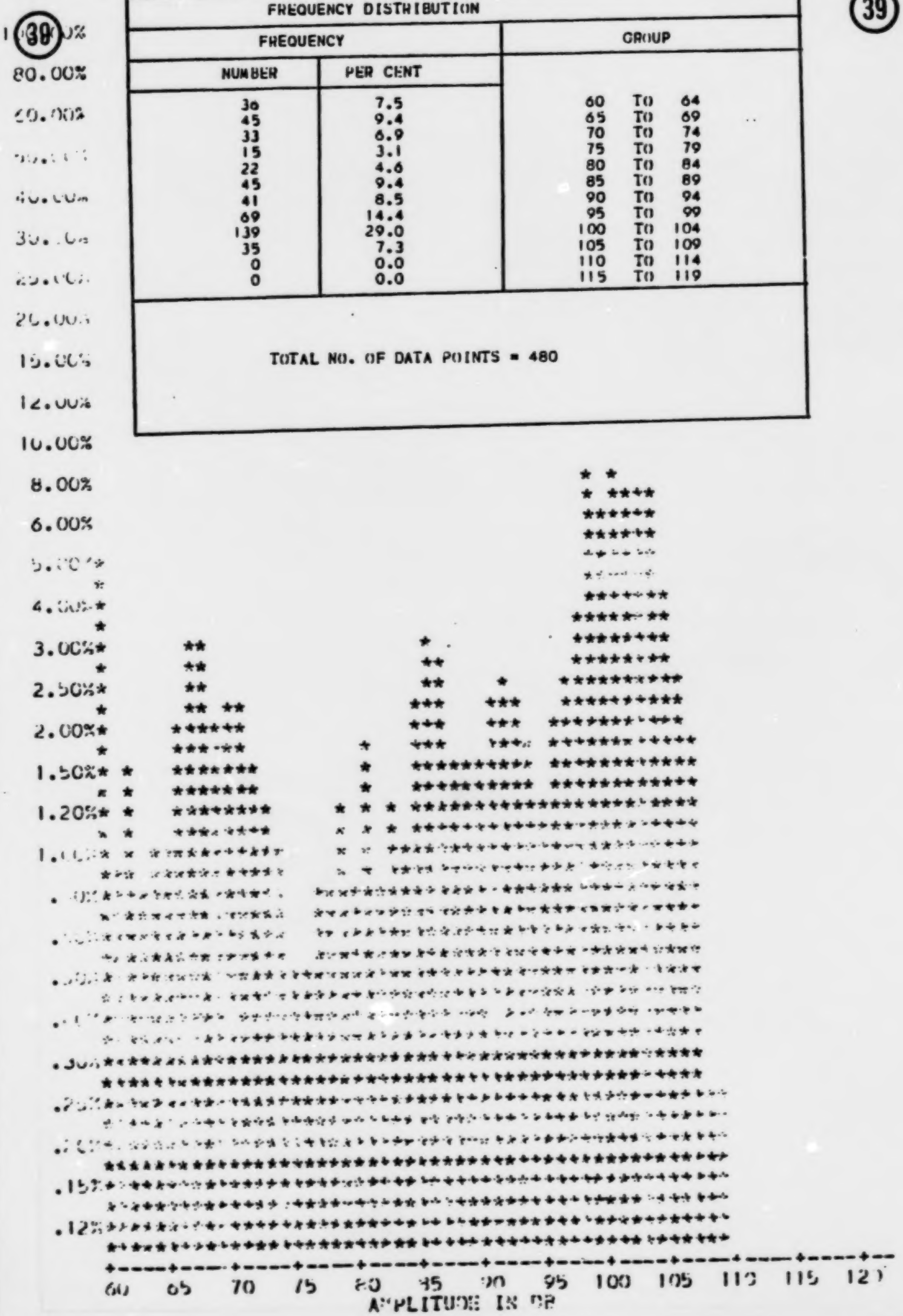
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	83.3	83.3	4.927	4.93
2	75.7	81.3	[illegible]	7.52
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]
6	100.9	95.9	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]

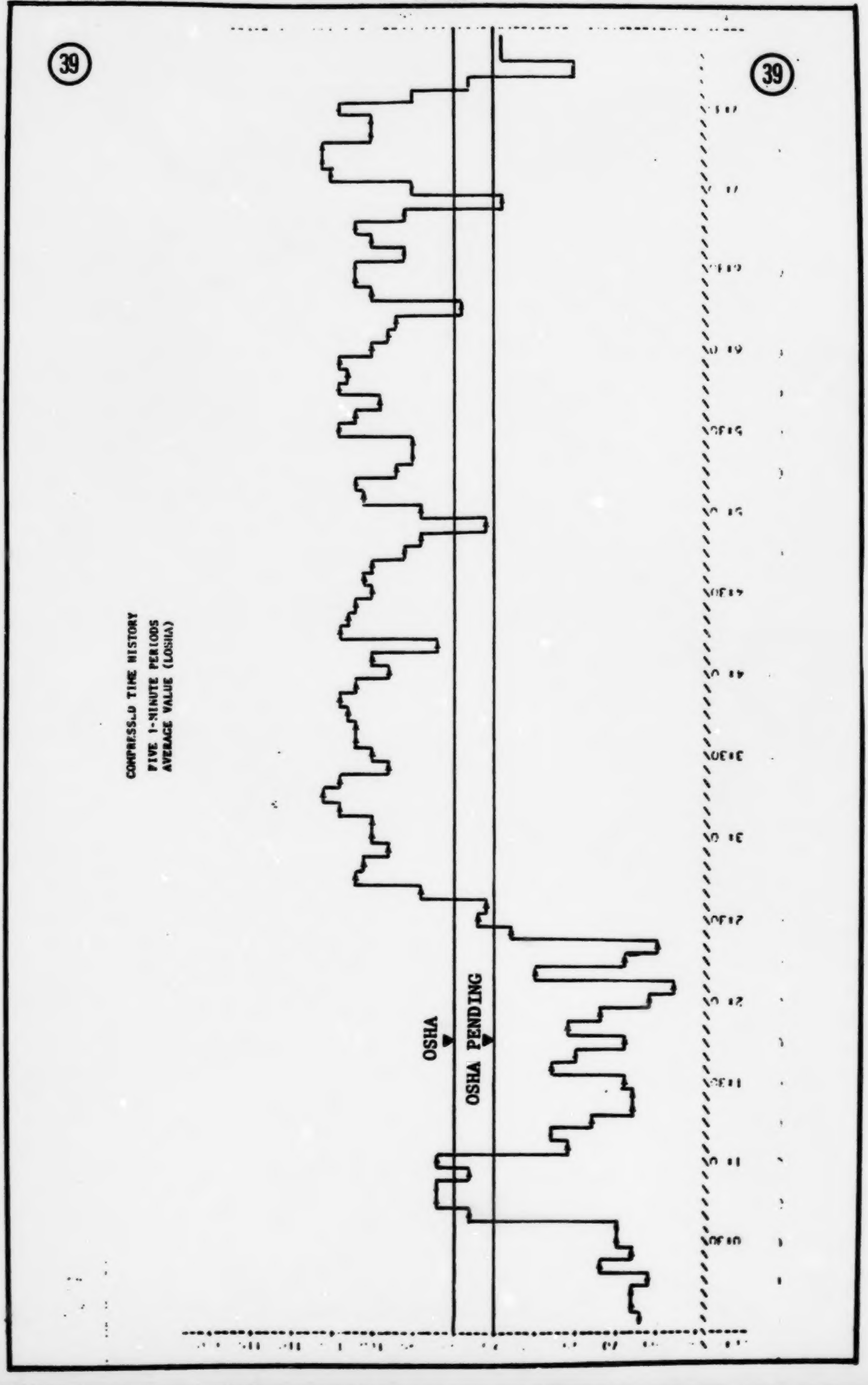
```
[illegible] = [illegible]            [illegible] = 109 [illegible]
[illegible] = [illegible]
[illegible] = [illegible]
[illegible]
```

39

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
36	7.5	60 TO 64
45	9.4	65 TO 69
33	6.9	70 TO 74
15	3.1	75 TO 79
22	4.6	80 TO 84
45	9.4	85 TO 89
41	8.5	90 TO 94
69	14.4	95 TO 99
139	29.0	100 TO 104
35	7.3	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




39
39
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING